

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

APPROV'D [REDACTED] FIG.
[REDACTED] SUBCLASS
DRAFTED [REDACTED]

100361969 - 060402

#5

FIGURE 1

A. CTTATCGATACCGTCGAAACTGTTATTGCAGCTATAATGGTTACAAATAAGCAATAGCAT
CACAAATTCACAAATAAAGCATTTCACGCATTCTAGTTGTGGTTGTCCAAACTCATCA
ATGTATCTTATCATGTC (Seq ID NO:1) Cleavage site

B. 

C. 

+ Upstream and downstream
cleavage- polyadenylation elements



FIGURE 2

► ITR

CATCATCAAT	AATATAACCTT	ATTTGGATT	GAAGCCAATA	TGATAATGAG	GGGGTGGAGT	60	
TTGTGACGTG	GCGCGGGGCG	TGGGAACGGG	ITR GCGGGTGACG	TAGTAGTGTG	GCGGAAGTGT	120	
GATGTTGCAA	GTGTGGCGGA	ACACATGTAA	AP3 DNA BS GCGACGGATG	TGGCAAAAGT	GAC G TTTTG	180	
GTGTGCGCCG	GTGTACACAG	GAAGTGACAA	TTTTCGCGCG XXXXXX	GTAGTAGGCG	GATGTTGTAG	240	
TAAATTTGGG	CGTAACCGAG	TAAGATTTGG	CCATTTTCGC XXXXXX	GGGAAAACTG	AATAAGAGGA	300	
AGTGAAATCT	GAATAATTT	GTGTTACTCA	TAGCGCGTAA +++++	TATTTGTCTA	GGGCCGCGGG	360	
GACTTTGACC	GTITACGTGG	AGACTCGCCC	AGGTGTTTT	CTCAGGTGTT	TTC CGC GTTC	420	
CGGGTCAAAG	TTGGCGTTT	ATTATTATAG	TCAGCTGACG	TGTAGTGTAT	El a TATA Box TTA TAC CCGG	480	
TGAGTTCCCTC	AAGAGGCCAC	+1► TGAGACACCG	TCTTGAGTGC	CAGCGAGTAG	AGTTTCTCC	TCC GAG CCGC	540
	GGACTGAAA A	TGAGACATAT	TATCTGCCAC	GGAGGTGTTA	TTACCGAAGA	600	

• Enhancer elements

▼—▼ dl 103-551 Ar6

X E2F-motif

▼—▼ dl 189-551

(SEQ ID NO:2)

+ Packaging elements

▼—▼ dl 357-551 Ar5



FIGURE 3A

1 CATCATCAATAATACCTTATTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT
+-----ITR-----

61 TTGTGACGTGGCGGGCGTGGAACGGGGCGGGTGACGTAGGGCGCGATCAAGCTTAT
+-----ITR-----+-----

121 CGATACCGTCGAAACTGTTATTGCAGCTTATAATGGTTACAAATAAGCAATAGCATT
-----polyA-----

181 ACAAAATTCACAAATAAGCATTTCAGCTTACTGCATTCTAGTTGTGGTTGTCCAAACTC
-----polyA-----

241 ATCAATGTATCTTATCATGTCTGGATCCGCGCCGCTAGCGATCATCCGGACAAAGCCTGC
-----+-----+-----

301 GCGCGCCCCGCCATTGCCGTACCGCCCCGCCGCCGCCATCTGCCCGCG
-----E2F-1 promoter-----

361 CCGCCGGTCCGGCGCTTAAAGCCAATAGGAACCGCCGCCGTTGTTCCCGTCACGGCCG
-----E2F-1 promoter-----

421 GGGCAGCCAATTGTGGCGGCCTCGGCGCTCGTGGCTTTCGCGGAAAAAGGATTG
-----E2f-1 promoter-----

481 GCGCGTAAAAGTGGCCGGACTTGCAGGCAGCGGCGGCCGGGGCGGAGCGGGATCGAG
-----E2f-1 promoter-----

541 CCCTCGATGATATCAGATCATGGATCCGGTCGACTGAAAATGAGACATATTATCTGCC
-----+-----+-----

601 ACGGAGGTGTTATTACCGAAGAAATGCCGCCAGTCTTGGACCACTGATCGAAGAGG
-----Ela gene-----

661 TACTGGCTGATAATCTTCCACCTCCTAGCCATTTGAACCACCTACCCCTCACGAACGT
-----Ela gene-----

721 ATGATTTAGACGTGACGGCCCCGAAGATCCAAACGAGGAGGCGGTTCGCAGATTTTC
-----Ela gene-----

781 CCGACTCTGTAATGTTGGCGGTGCAGGAAGGGATTGACTTACTCACCTTCCGCCGGCG
-----Ela gene-----

841 CCGGTTCTCCGGAGCCGCCTCACCTTCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCT
-----Ela gene-----

901 TGGGTCCGGTTCTATGCCAACCTTGTACCGGAGGTGATCGATCTTACCTGCCACGAGG
-----Ela gene-----



FIGURE 3B

961 CTGGCTTCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTTGTGTTAGATTATG
-----Ela gene-----

1021 TGGAGCACCCGGGCACGGTTGCAGGTCTTGTCAATTATCACCGGAGGAATACGGGGGACC
-----Ela gene-----

1081 CAGATATTATGTGTTCGCTTGCTATATGAGGACCTGTGGCATGTTGTCTACAGTAAGT
-----Ela gene-----

1141 GAAAATTATGGGCAGTGGGTGATAGAGTGGTGGGTTGGTGTGTAATTTTTTTAAT
-----Ela gene-----

1201 TTTTACAGTTTGTGGTTAAAGAATTGTATTGTGATTTTTAAAGGTCTGTGTC
-----Ela gene-----

1261 TGAACCTGAGCCTGAGCCCGAGCCAGAACCGGAGCCTGCAAGACCTACCCGCCGTCTAA
-----Ela gene-----

1321 AATGGCGCCTGCTATCCTGAGACGCCGACATCACCTGTGTCTAGAGAATGCAATAGTAG
-----Ela gene-----

1381 TACGGATAGCTGTGACTCCGGTCCTCTAACACACACCTCCTGAGATAACACCGGTGGTCCC
-----Ela gene-----

1441 GCTGTGCCCATAAACCAGTTGCCGTGAGAGTTGGTGGCGTCGCCAGGCTGTGGAATG
-----Ela gene-----

1501 TATCGAGGACTTGCTAACGAGCCTGGCAACCTTGACTTGAGCTGTAAACGCCAG
-----Ela gene-----

1561 GCCATAAGGTGTAAACCTGTGATTGCCGTGAGGTTAACGCCCTTGCTGAATGAGT
-----Ela gene-----

1621 TGATGTAAGTTAATAAAGGGTGAGATAATGTTAACCTGCATGGCGTGTAAATGGGC
-----+-----

1681 GGGGCTTAAAGGTATATAATGCCGTGGCTAACCTGGTTACATCTGACCTCATGGAA
-----E1b gene-----

1741 GGCTTGGGAGTGTGTTGGAAGATTTCTGCTGTGCGTAACCTGCTGGAACAGAGCTCTAA
-----E1b gene-----

1801 CA



FIGURE 3C

33881 AACCTACGCCAGAACGAAAGCCAAAAACCCACAACCTCCTCAAATCGTACCTCCGT

33941 TTTCCCACGTTACGTCACTTCCCATTTAAGAATTCTACAATTCCAACACATACA

34001 AGTTACTCCGCCCTAAAACCCTGGCGAGTCTCACGTAAACGGTCAAAGTCCCCGCGC
+ -packaging signal-----

34061 CCTAGACAAATATTACGCGCTATGAGTAACACAAAATTATTCA~~G~~ATTCACTCCTCTTA
-----packaging signal-----

34121 TTCAGTTTCCCGCGAAAATGCCAAATCTTACTCGGTTACGCCAAATTACTACAACA
-----packaging signal-----

34181 TCCGCCTAAAACCGCGCGAAAATTGTCACTTCCTGTGTACACGGCGCACACCAAAAACG
-----+-----

34241 TCAC~~TTT~~GCCACATCCGTCGTTACATGTGTTCCGCCACACTGCAACATCACACTTCC

34301 GCCACACTACTACGTCACCCGCCCGTTCCCACGCCCGGCCACGTACAAACTCCACC
+-----ITR-----

34361 CCCTCATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATG
-----ITR-----+



APPROVED	FIG.
BY	SUBCLASS
DRAFTSMAN	

1 000 156 9 122 12 02

FIGURE 4

1 CATCATCAATAATACCTTATTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT
+-----ITR-----

61 TTGTGACGTGGCGGGCGTGGGAACGGGGCGGTGACGTAGGGCGCGCCGCTAGCGAT
-----ITR-----+----MCS-----

121 ATCGGATCCCGGTCGACTGAAAATGAGACATATTATGCCACGGAGGTGTTATTACGA
-----+-----Ela-----

181 AGAAATGGCCGCCAGTCTTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCC
-----Ela-----

241 ACCTCCTAGCCATTTGAACCACCTACCCTCACGAACGTATGATTAGACGTGACGGC
-----Ela-----

301 CCCCGAAGATCCAAACGAGGAGGCGGTTCGCAGATTTCCCGACTCTGTAATGTTGGC
-----Ela-----

361 GGTGCAGGAAGGGATTGACTTACTCACTTTCCGCCGGCGCCGGTTCTCCGGAGCCGCC
-----Ela-----

421 TCACCTTCCGGCAGCCGAGCAGCCGGAGCAGAGAGCCTGGGTCCGGTTCTATGCC
-----Ela-----

481 AACCTTGTACCGGAGGTGATCGATCTACCTGCCACGAGGCTGGCTTCCACCCAGTGA
-----Ela-----

541 CGACGAGGATGAAGAGGGTGAGGAGTTGTGTTAGATTATGTGGAGCACCCGGGCACGG
-----Ela-----

601 TTGCAGGTCTTGTCAATTACCGGAGGAATACGGGGACCCAGATATTATGTGTTCGCT
-----Ela-----





FIGURE 5

1 CATCATCAATAATACCTTATTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT
 +-----ITR-----

 61 TTGTGACGTGGCGGGCGTGGGAACGGGGCGGGTGACGTAGGGCGCGATCAAGCTTAT
 -----ITR-----+-----

 121 CGATACCGTCGAAACTGTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATT
 -----polyA-----

 181 ACAAAATTCACAAATAAAGCATTTCAGCTGCATTCTAGTTGTGGTTGTCCAAACTC
 -----polyA-----

 241 ATCAATGTATCTTATCATGTCTGGATCCGCGCCGCTAGCGATATCGGATCCGGTCGACT
 +-----

 301 GAAAATGAGACATATTATCTGCCACGGAGGTGTTATTACCGAAGAAATGGCCGCCAGTCT
 -----Ela-----

 361 TTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCCACCTCCTAGCCATTGAA
 -----Ela-----

 421 ACCACCTACCCTTCACGAACGTGATGATTAGACGTGACGGCCCCGAAGATCCAACGA
 -----Ela-----

 481 GGAGGCGGTTTCGAGATTTCCCGACTCTGTAATGTTGGCGGTGCAGGAAGGGATTGAA
 -----Ela-----

 541 CTTACTCACTTCCGCCGGCGCCGGTTCTCCGGAGCCGCCTCACCTTCCGGCAGCC
 -----Ela-----

 601 CGAGCAGCCGGAGCAGAGAGCCTGGGTCCGGTTCTATGCCAACCTTGTACCGGAGGT
 -----Ela-----



APPENDIX

116.
ONECLASS

DRAFT 1.0

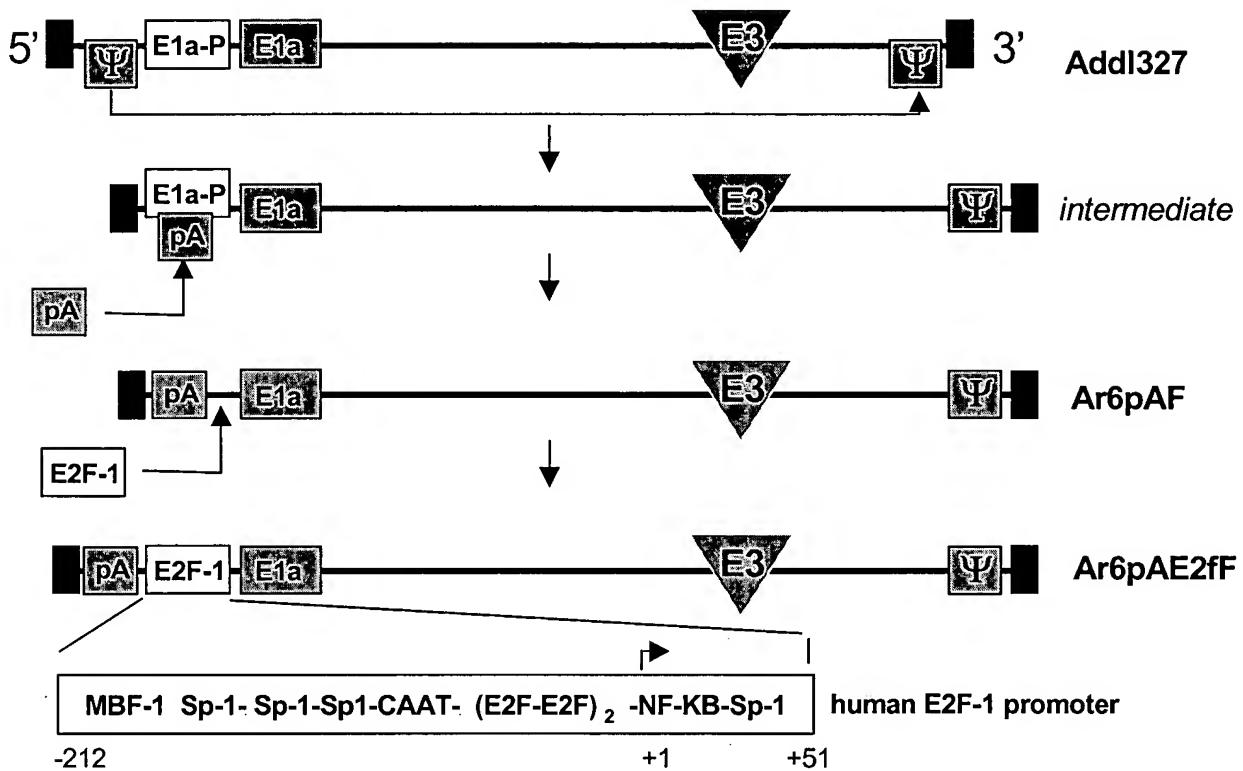
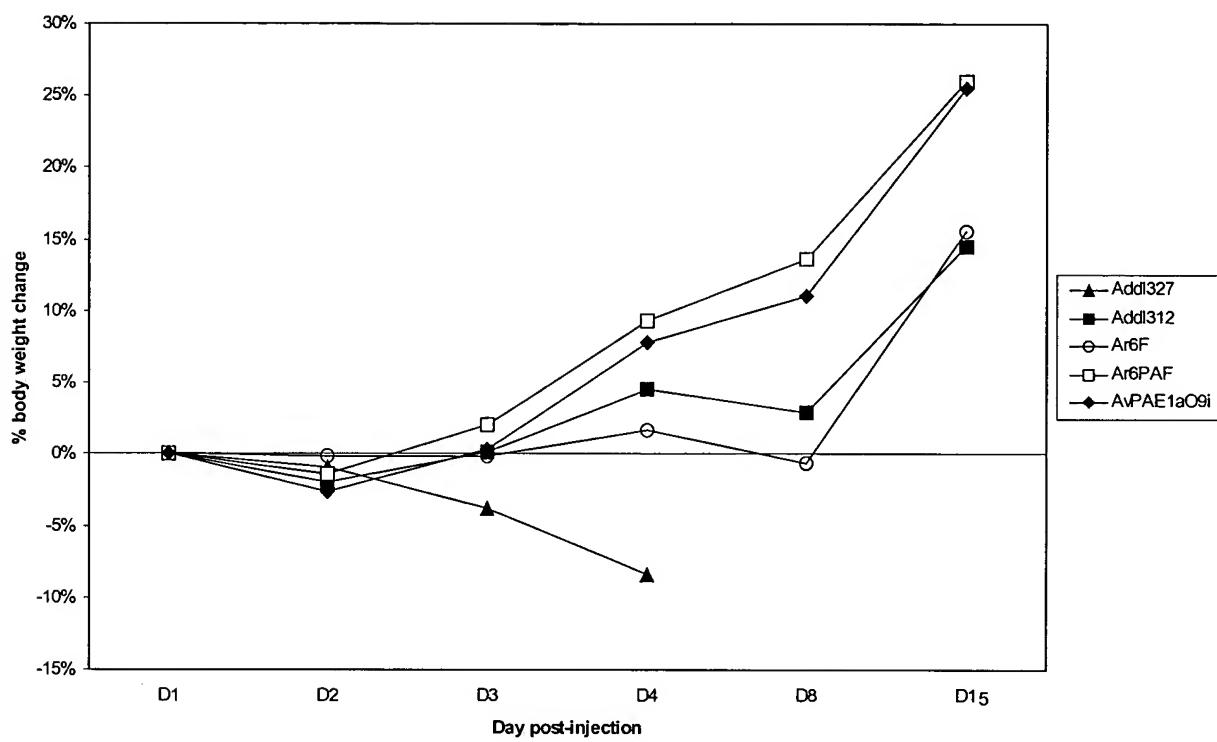


FIGURE 6



Fig. 7 Body weight change



O I P E
AUG 01 2002
OFFICE 450

Fig. 8 Minimizing nonspecific transactivation of E1a gene

Backbones generated:

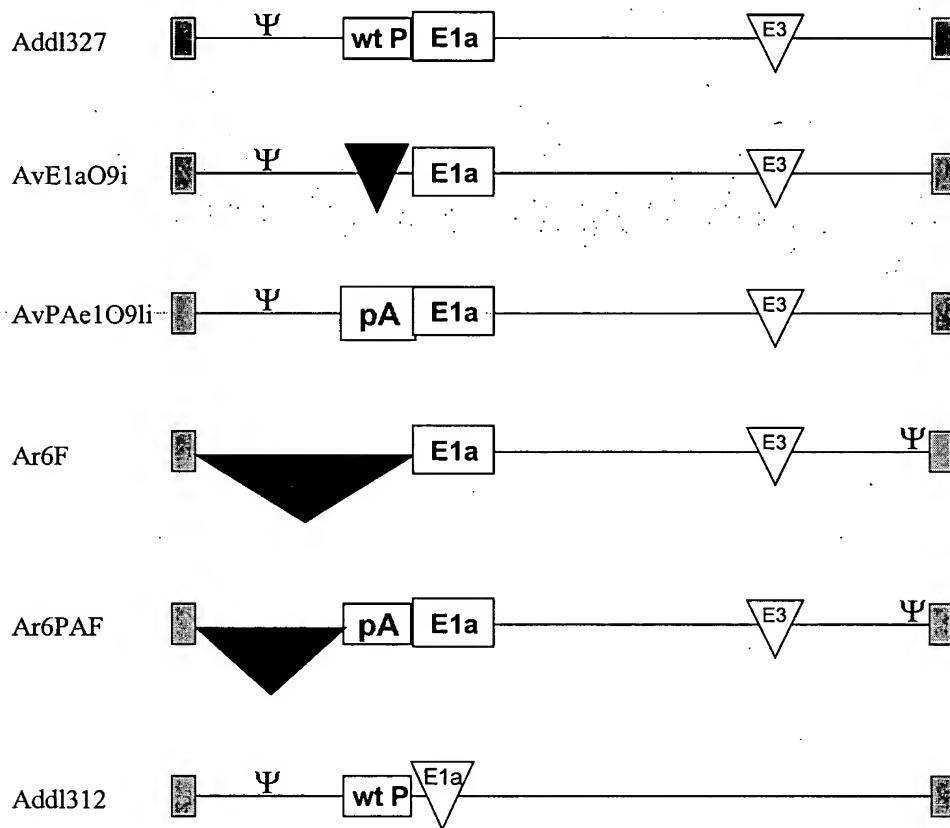


Figure 9. Mean H460 tumor volume

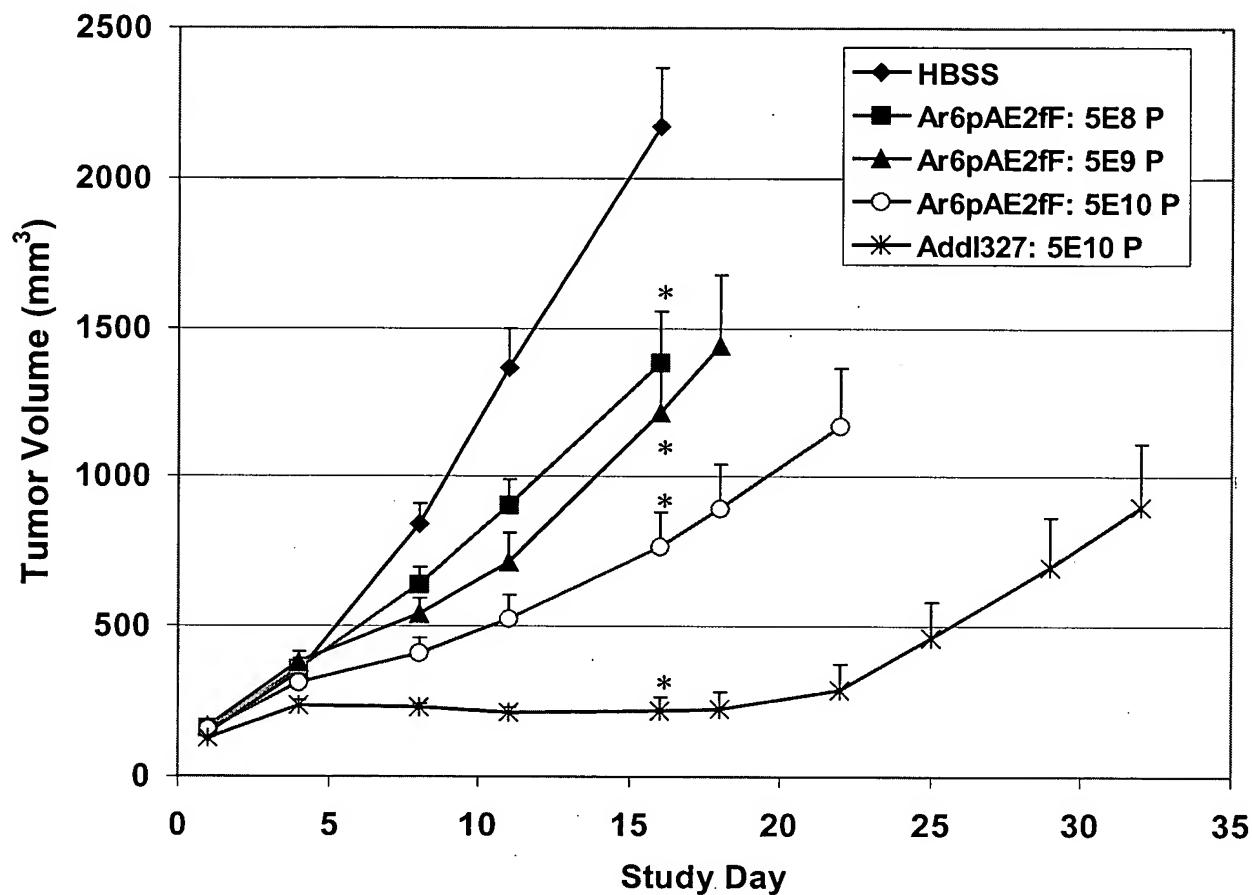
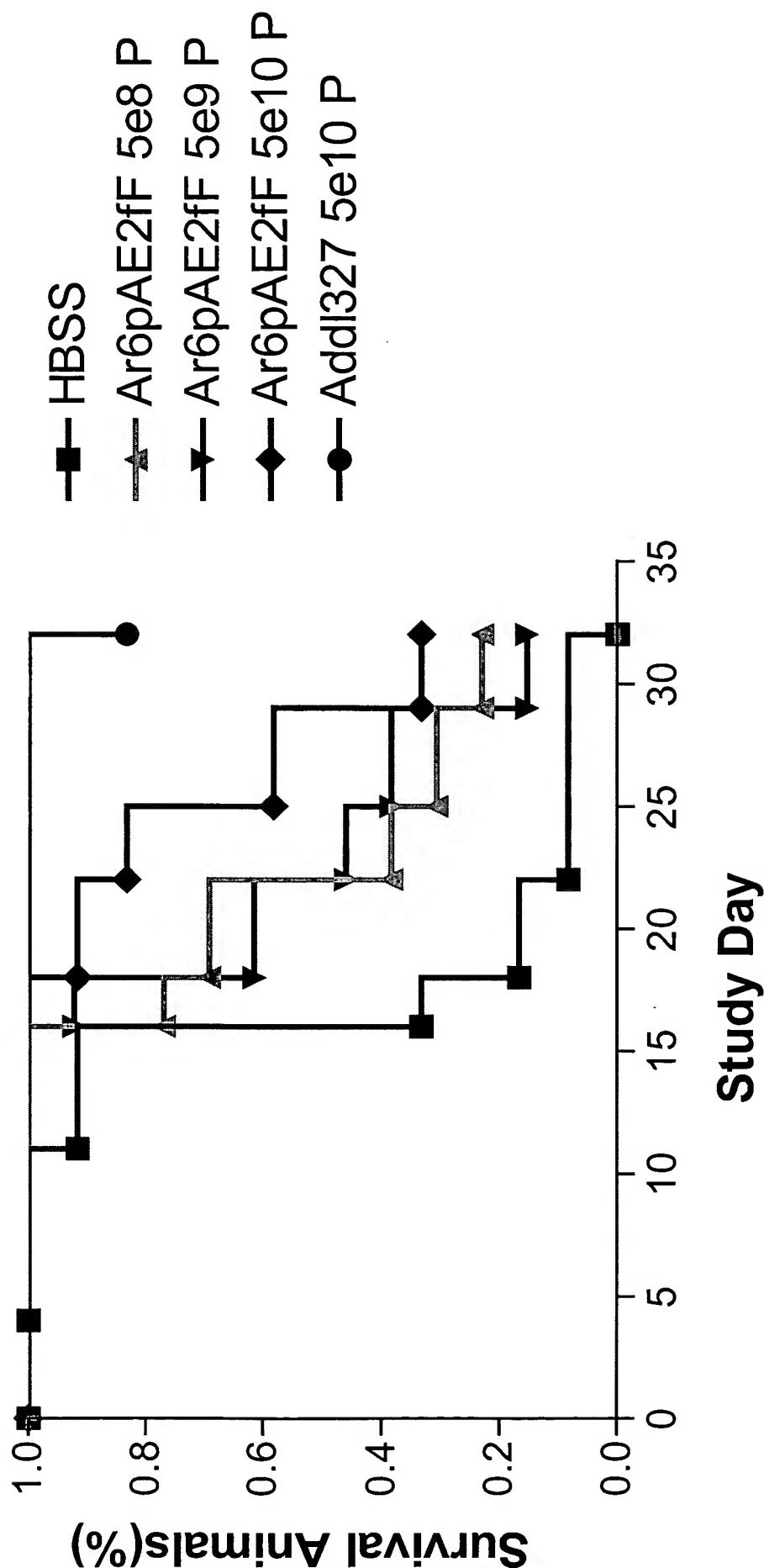


FIGURE 10



ATTY. NO. 10111	FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

107381969 02202162

FIGURE 11

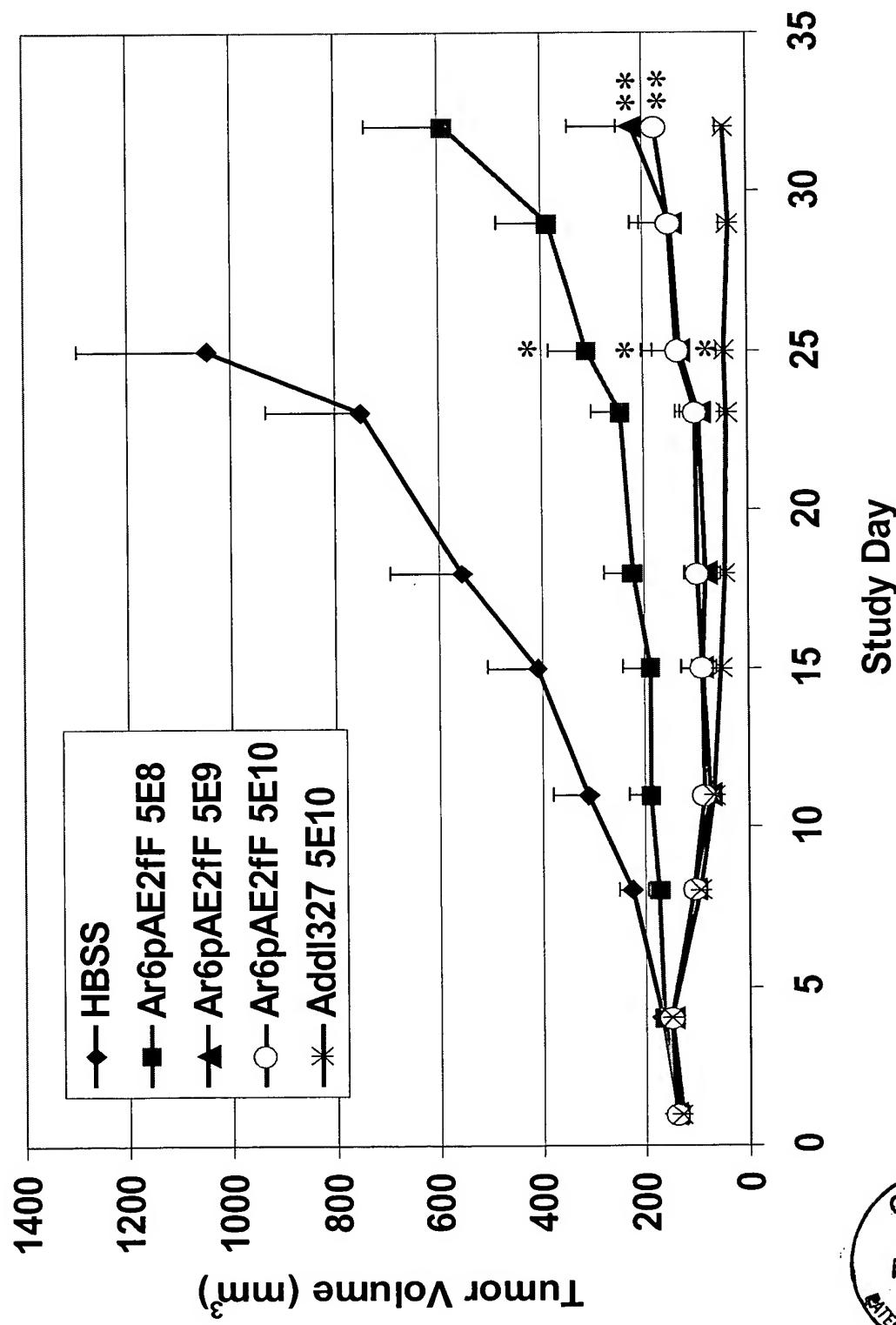
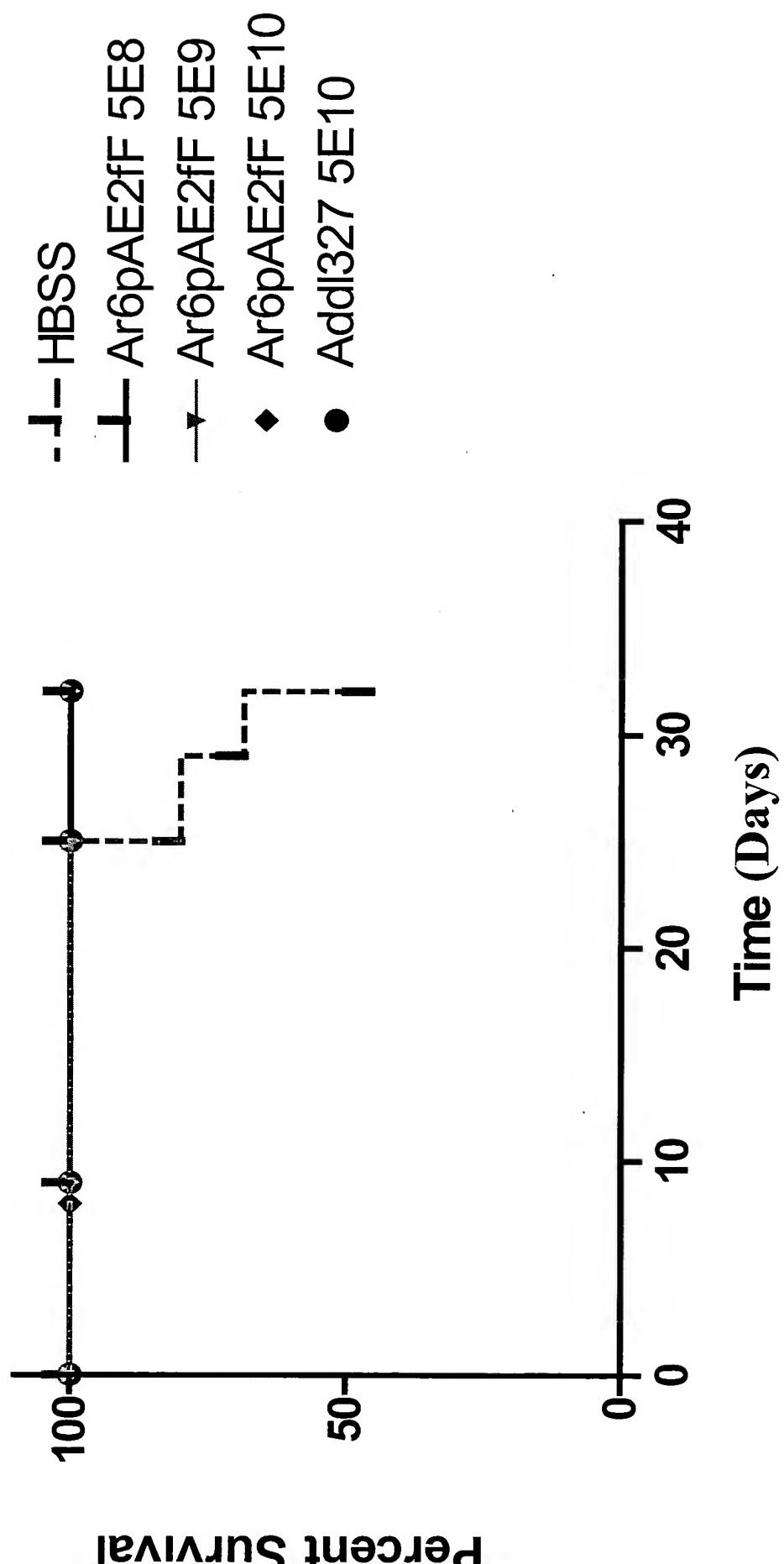


FIGURE 12

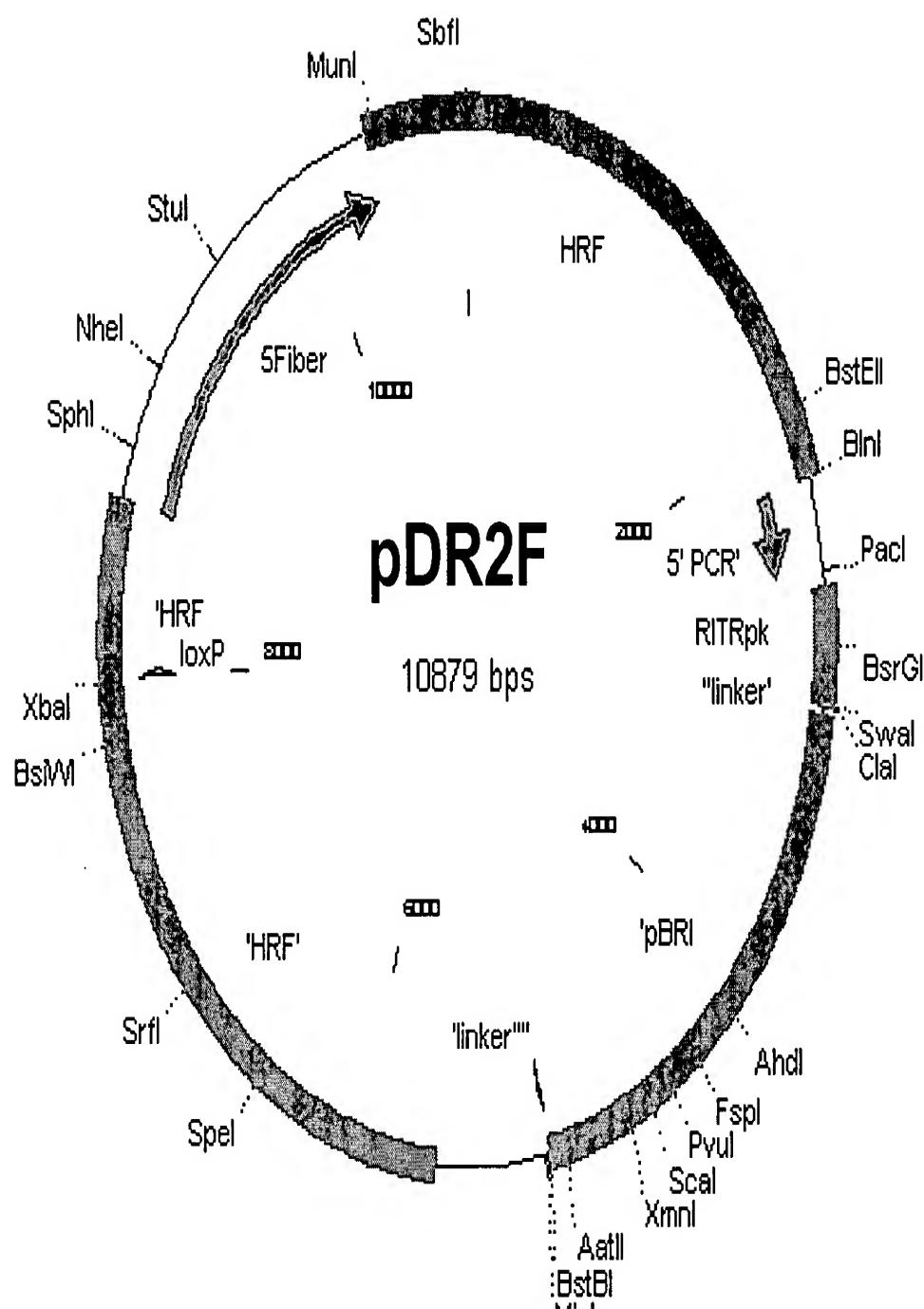


100%
80%
60%
40%
20%
0%
AUG 01 2002
P-1500
JCS
OFFICE OF SPAC

APPROVED	O. O. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

ANSWER TO THE CHIEF QUESTIONS

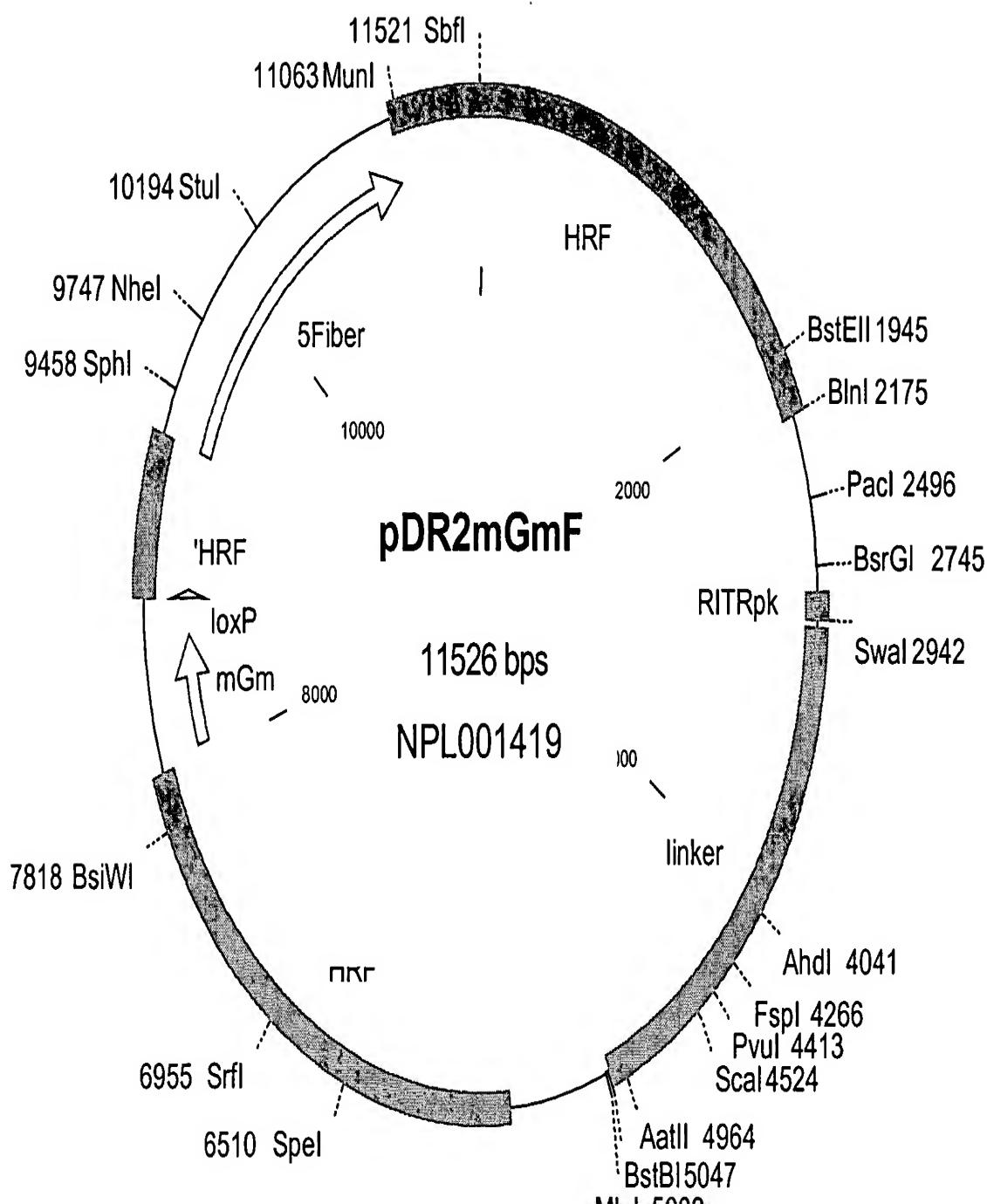
FIGURE 13



APPROVED	J. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

101931565 02503102

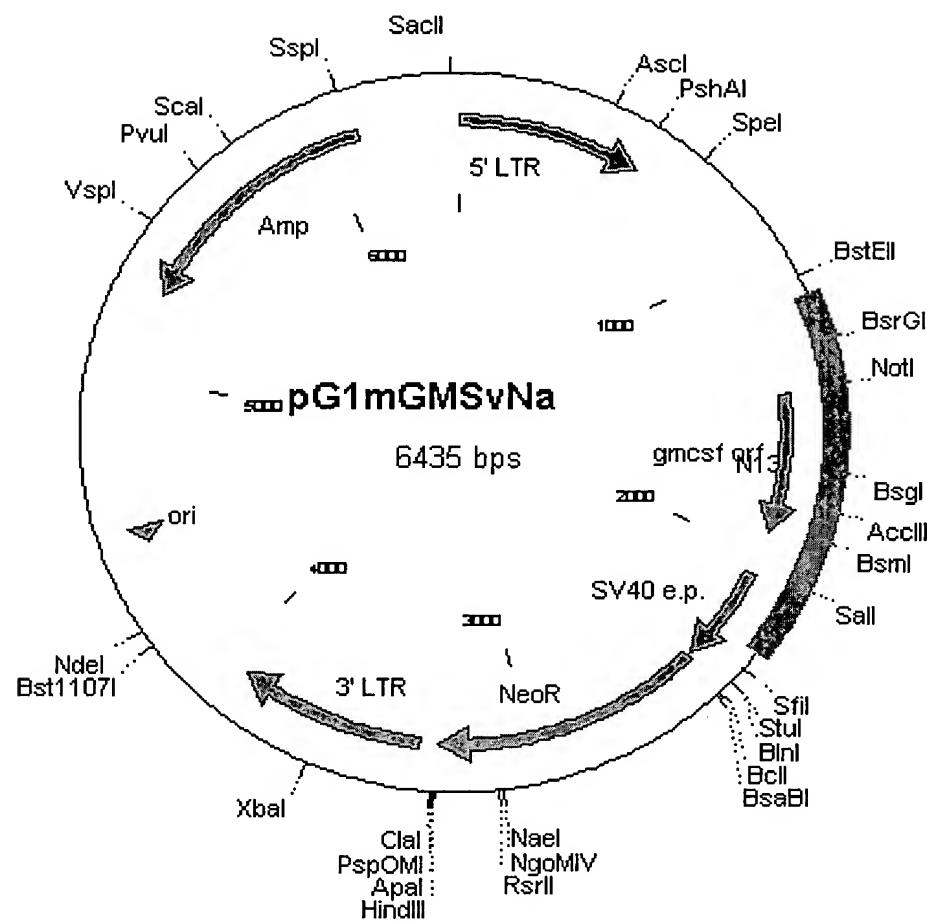
FIGURE 14



APPROVED **O.G. FIG.**
BY CLASS SUBCLASS
DRAFTSMAN

107081969 . 060102

FIGURE 15



O P E JC54
AUG 01 2002
PATENT & TRADEMARK OFFICE

FIGURE 16

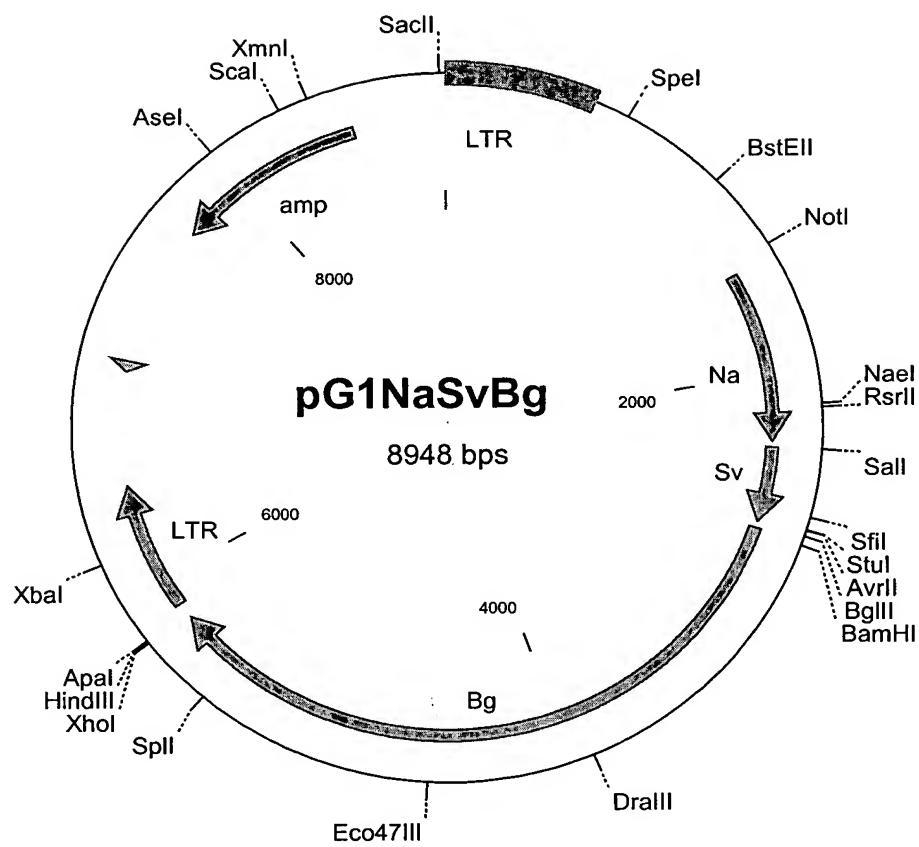


FIGURE 17

7878 TTCCGGACAG ACCTCAATAA CTCTGTTAC CAGAACAGGA GGTGAGCTTA
 7928 GAAAACCCCTT AGGGTATTAG GCCAAAGGCG CAGCTACTGT GGGGTTTATG
 7978 ACAATTCAA GCAACTCTAC GGGCTATTCT AATTCAAGTT TCTCTAGCCG
 8028 GGCTGCAGGA ATTGATGGC CGCTACCTAC AATGGCCCAC GAGAGAAAGG
 M A H E R K
 8078 CTAAGGT CCT GAGGAGGATG TGGCTGCAGA ATTTACTTTT CCTGGGCATT
 A K V L R R M W L Q N L L F L G I
 8128 GTGGTCTACA GCCTCTCAGC ACCCACCCGC TCACCCATCA CTGTCACCCG
 V V Y S L S A P T R S P I T V T
 8178 GCCTTGGAAAG CATGTAGAGG CCATCAAAGA AGCCCTGAAC CTCCCTGGATG
 R P W K H V E A I K E A L N L L D
 8228 ACATGCCTGT CACATTGAAT GAAGAGGTAG AAGTCGTCTC TAACGAGTTC
 D M P V T L N E E V E V V S N E F
 8278 TCCTTCAAGA AGCTAACATG TGTGCAGACCC CGCCTGAAGA TATTCGAGCA
 S F K K L T C V Q T R L K I F E
 8328 GGGTCTACGG GGCAATTCA CCAAACCAA GGGCGCCTTG AACATGACAG
 Q G L R G N F T K L K G A L N M T
 8378 CCAGCTACTA CCAGACATAC TGCCCCCAA CTCCGGAAAC GGACTGTGAA
 A S Y Y Q T Y C P P T P E T D C E
 8428 ACACAAGTTA CCACCTATGC GGATTCATA GACAGCCTTA AAACCTTTCT
 T Q V T T Y A D F I D S L K T F
 8478 GACTGATATC CCCTTGAAAT GCAAAAAACC AGTCAAAAAA TGAGGAAGCC
 L T D I P F E C K K P V Q K -
 8528 CAGGCCAGCT CTGAATCCAG CTTCTCAGAC TGCTGCTTT GTGCCTGCGT
 8578 AATGAGCCAG GAACTCGGAA TTTCTGCCTT AAAGGGACCA AGAGATGTGG
 8628 CACAGGTAGT CGAATCAAGC TTATCGATACTCGACCTC GACTAGATAA
 8678 CTTCGTATAA TGTATGCTAT ACGAAGTTAT GCTAGAAATG GACGGAATTA
 8728 TTACAGAGCA GCGCTGCTA GAAAGACGCA GGGCAGCGGC CGAGCAACAG
 8778 CGCATGAATC AAGAGCTCCA AGACATGGTT AACTTGCACC AGTGCAAAA 8826



FIGURE 18

APPROVED 2/2/95 FIG.
55 SUBCLASS
DRAFTSMAN

11 000 12 000 13 000 14 000 15 000 16 000 17 000 18 000 19 000 20 000 21 000 22 000 23 000 24 000 25 000 26 000 27 000 28 000 29 000 30 000 31 000 32 000 33 000 34 000 35 000 36 000 37 000 38 000 39 000 40 000 41 000 42 000 43 000 44 000 45 000 46 000 47 000 48 000 49 000 50 000 51 000 52 000 53 000 54 000 55 000 56 000 57 000 58 000 59 000 60 000 61 000 62 000 63 000 64 000 65 000 66 000 67 000 68 000 69 000 70 000 71 000 72 000 73 000 74 000 75 000 76 000 77 000 78 000 79 000 80 000 81 000 82 000 83 000 84 000 85 000 86 000 87 000 88 000 89 000 90 000 91 000 92 000 93 000 94 000 95 000 96 000 97 000 98 000 99 000 100 000

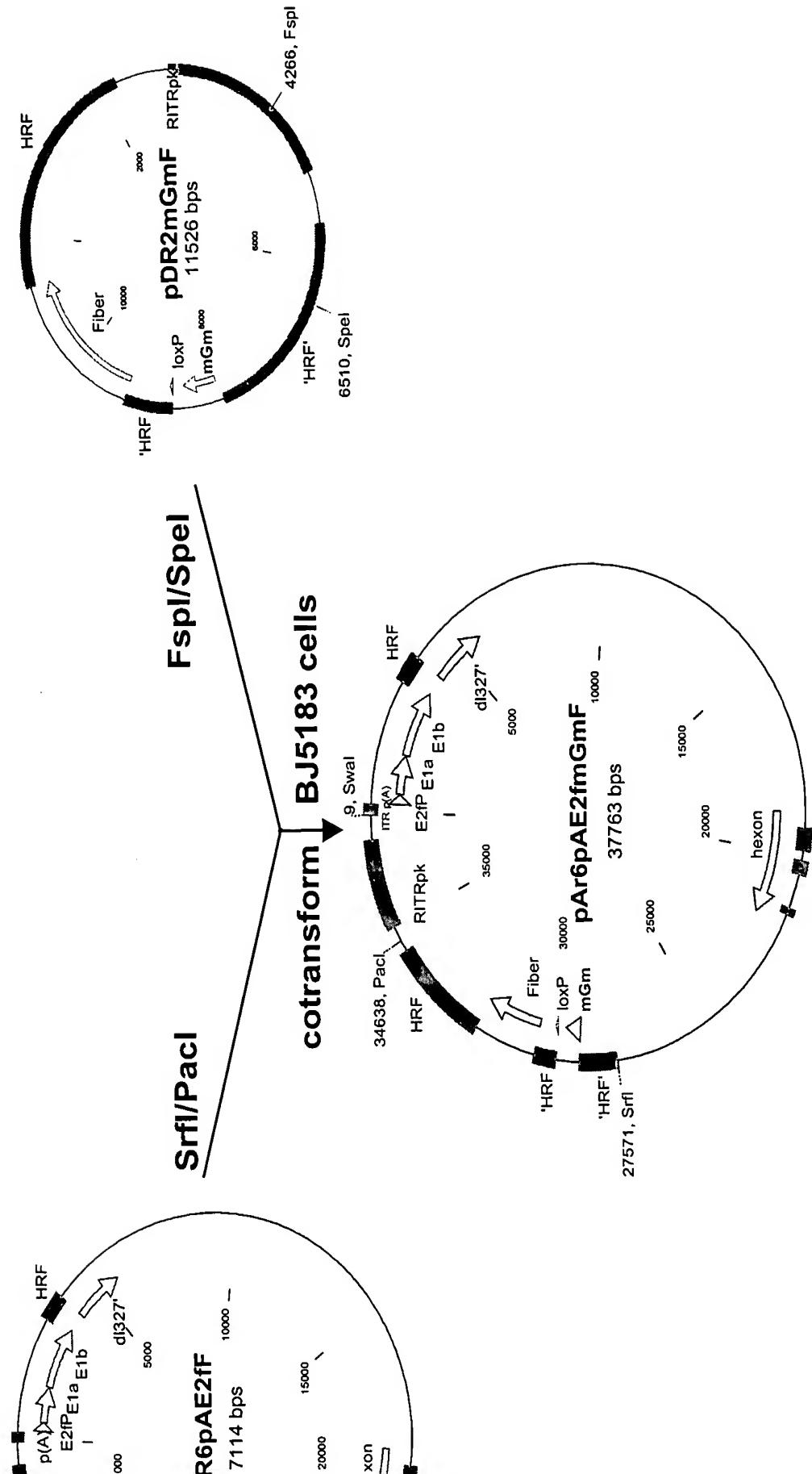
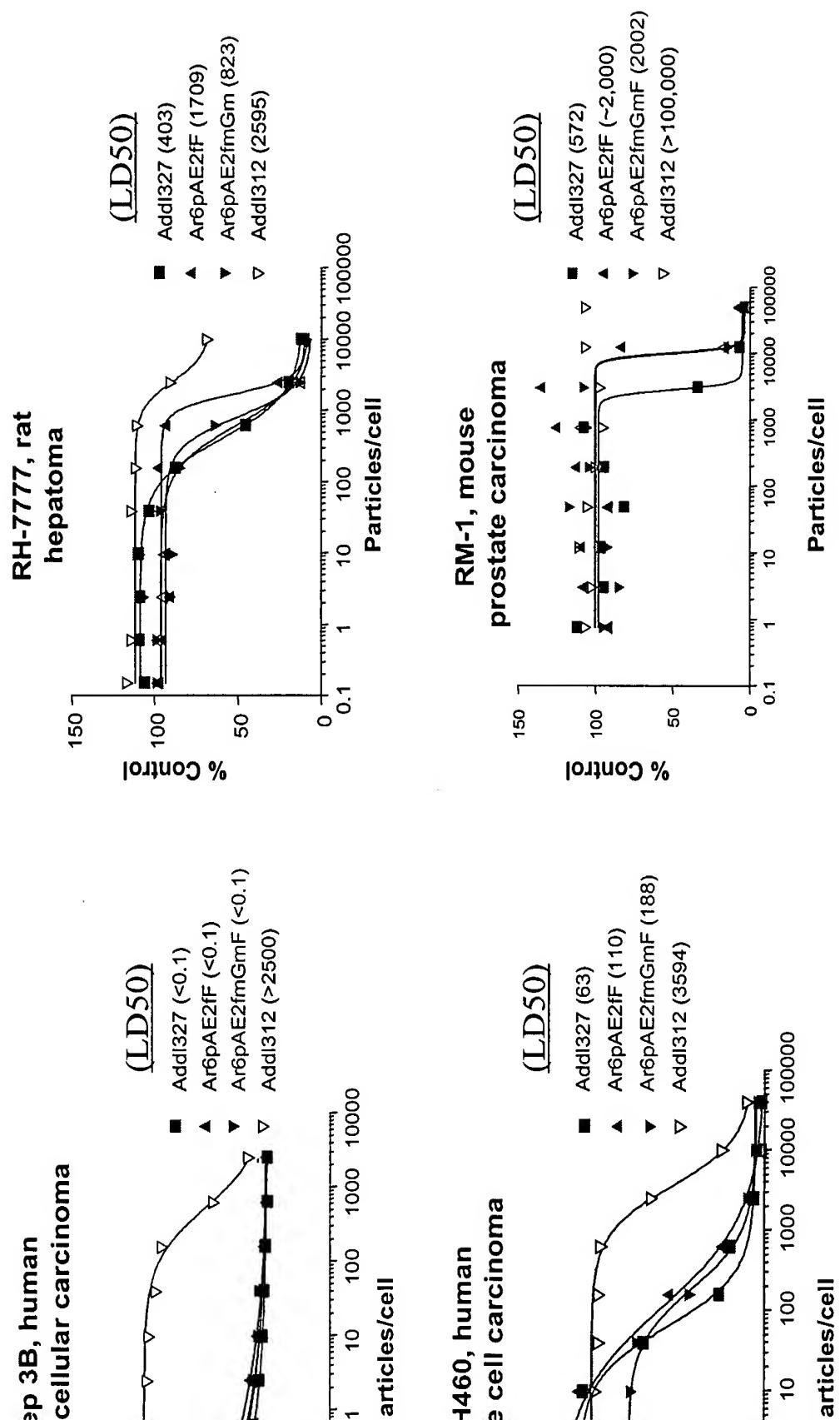


FIGURE 19



AFN	REF FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

1.00751962 1000010322

FIGURE 20

28536 TATTAGGCCA AAGGCGCAGC TACTGTGGGG TTTATGAACA ATTCAAGCAA
 28586 CTCTACGGGC TATTCTAATT CAGGTTCTC TAGGATCTT CCGCAGCAGC

 28636 CGCCACCATG TGGCTGCAGA GCCTGCTGCT CTTGGGCACT GTGGCCTGCA
 M W L Q S L L L L G T V A C

 28686 GCATCTCTGC ACCCGCCCGC TCGCCCAGCC CCAGCACGCA GCCCTGGGAG
 S I S A P A R S P S P S T Q P W E

 28736 CATGTGAATG CCATCCAGGA GGCCCGGGCGT CTCCTGAACC TGAGTAGAGA
 H V N A I Q E A R R L L N L S R

 28786 CACTGCTGCT GAGATGAATG AAACAGTAGA AGTCATCTCA GAAATGTTG
 D T A A E M N E T V E V I S E M F

 28836 ACCTCCAGGA GCCGACCTGC CTACAGACCC GCCTGGAGCT GTACAAGCAG
 D L Q E P T C L Q T R L E L Y K Q

 28886 GGCCTGCGGG GCAGCCTCAC CAAGCTCAAG GGCCCCTTGA CCATGATGGC
 G L R G S L T K L K G P L T M M

 28936 CAGCCACTAC AAGCAGCACT GCCCTCCAAC CCCGGAAACT TCCTGTGCAA
 A S H Y K Q H C P P T P E T S C A

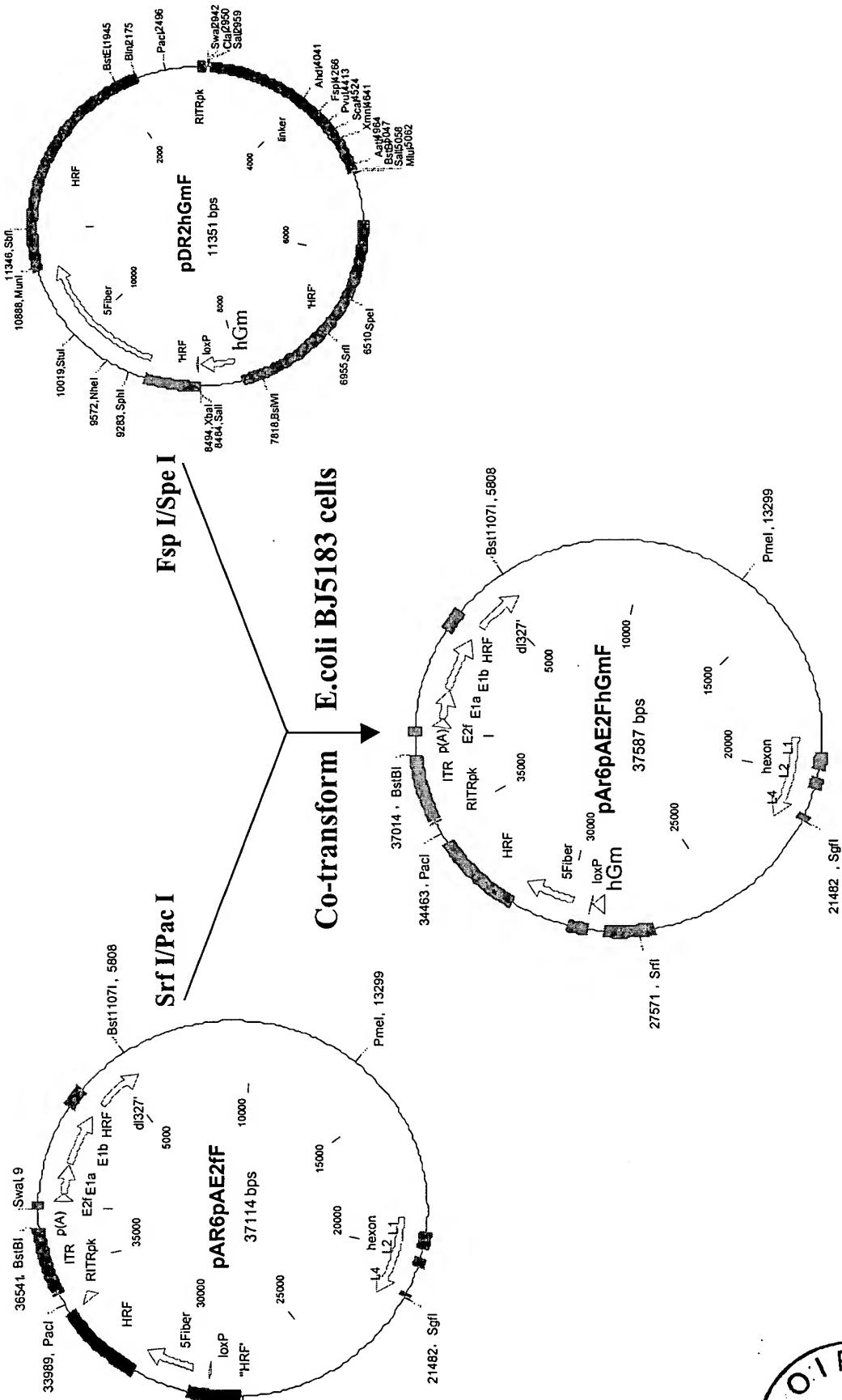
 28986 CCCAGACTAT CACCTTGAA AGTTTCAAAG AGAACCTGAA GGACTTTCTG
 T Q T I T F E S F K E N L K D F L

 29036 CTTGTCATCC CCTTTGACTG CTGGGAGCCA GTCCAGGAGT GAGTCGACAA
 L V I P F D C W E P V Q E -

 29086 GCTCTAGATA ACTTCGTATA ATGTATGCTA TACGAAGTTA TGCTAGAAAT
 29136 GGACGGAATT ATTACAGAGC AGCGCCTGCT AGAAAGACGC AGGGCAGCGG
 29186 CCGAGCAACA GCGCATGAAT CAAGAGCTCC AAGACATGGT TAACTTGCAC
 29236 CAGTGCAAAA GGGGTATCTT TTGTCTGGTA AAGCAGG 29273

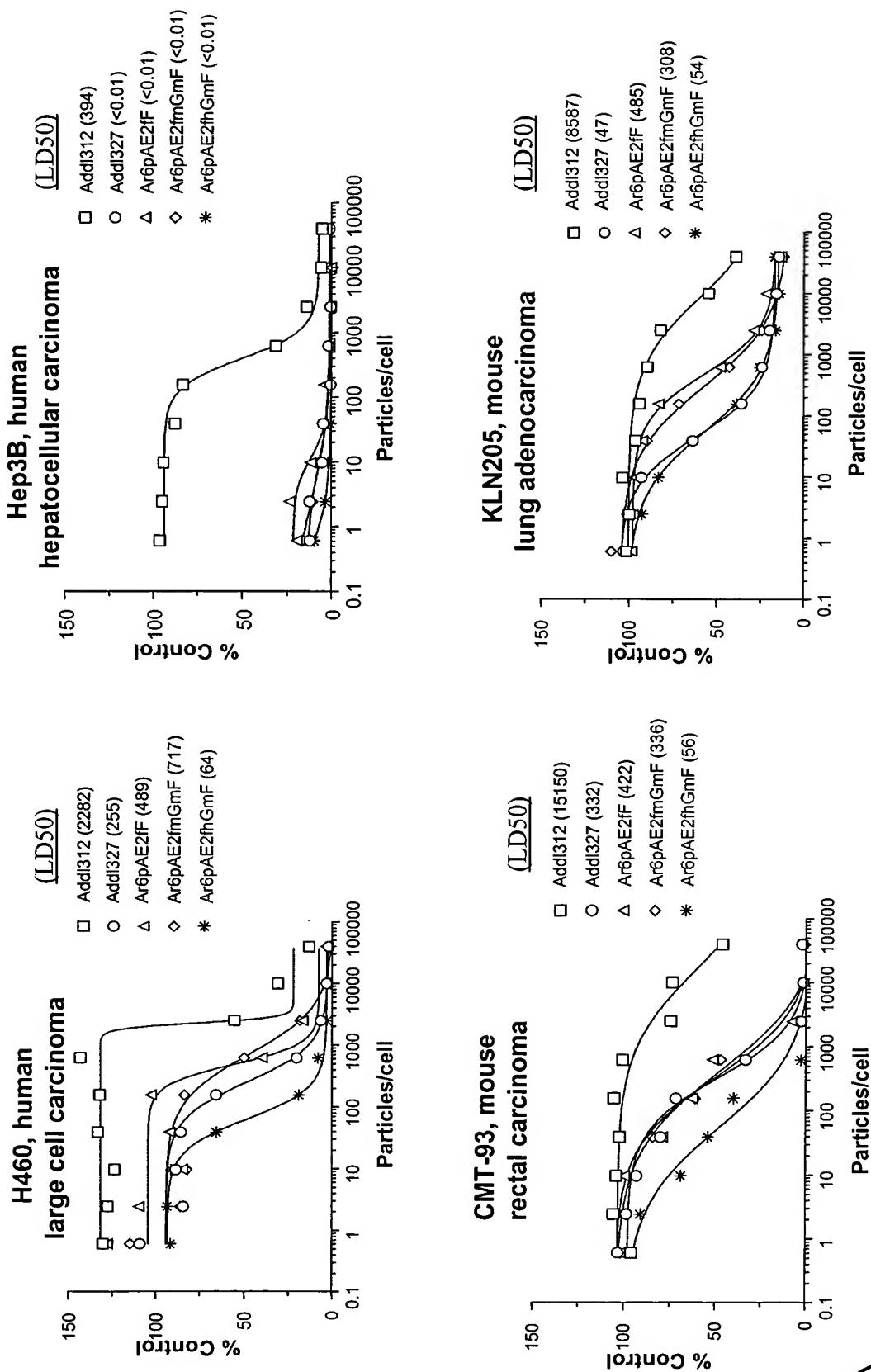


FIGURE 21



AUG 01 2002

FIGURE 22



OPI
AUG 01 2002
JCS 4
PATENT & TRADEMARK OFFICE

FIGURE 23

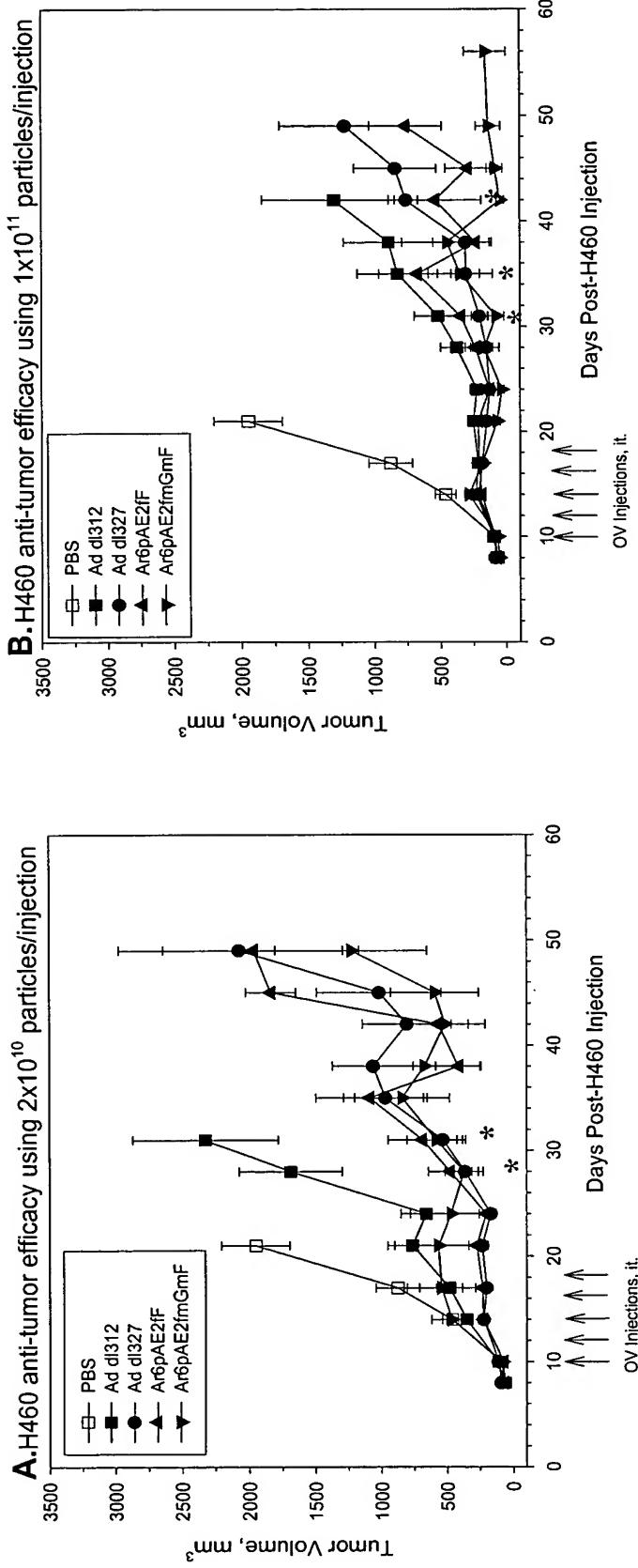
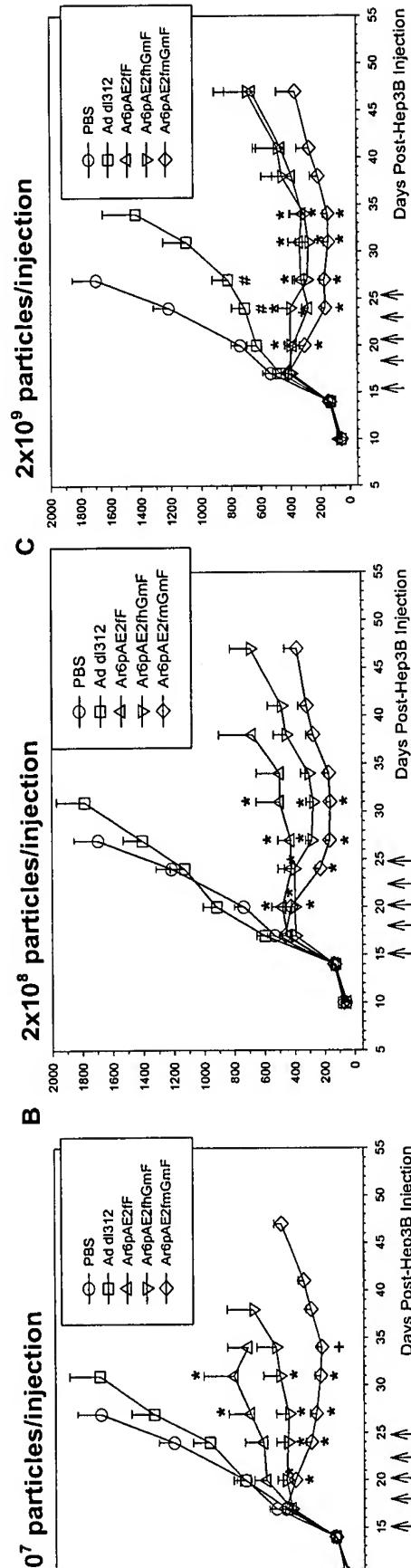
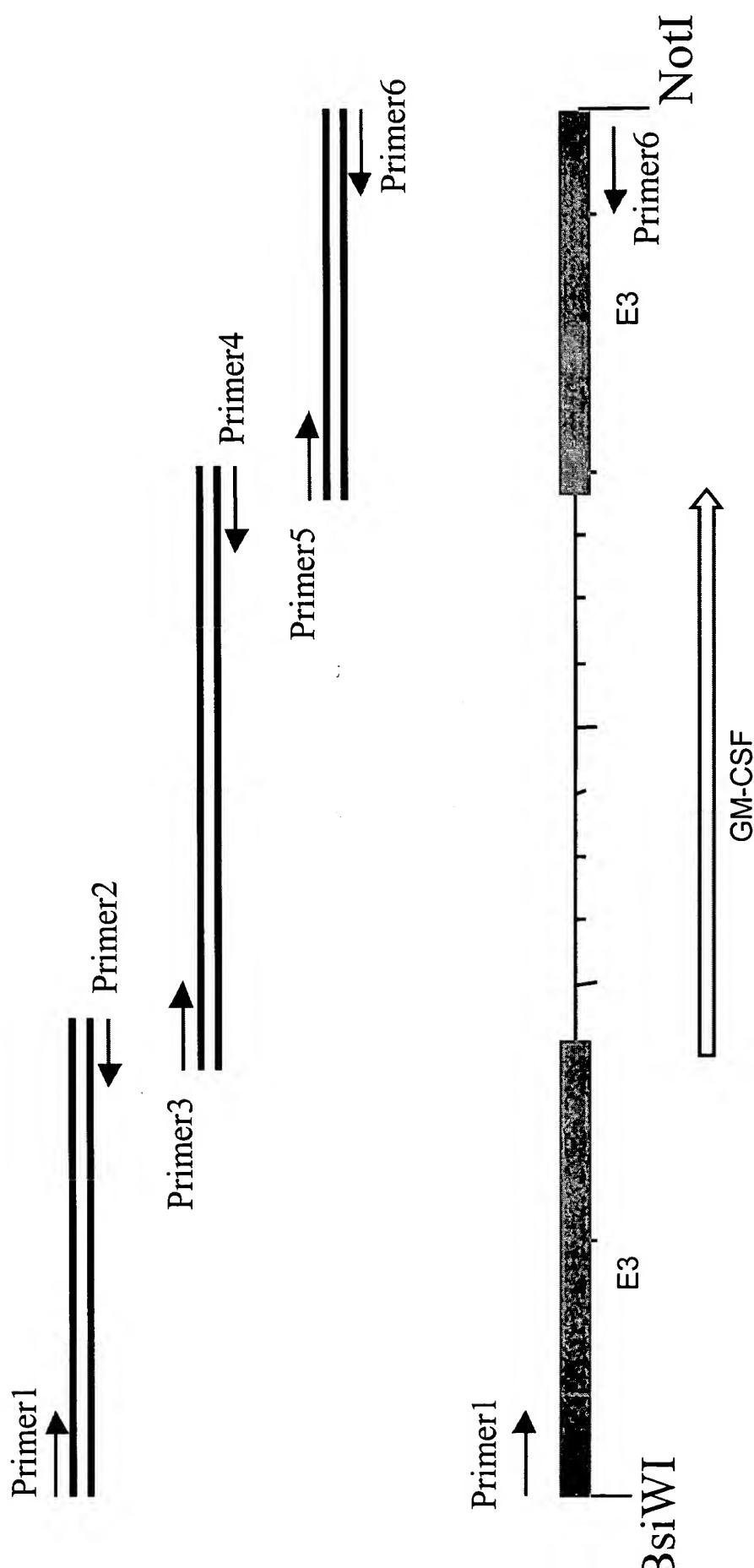


FIGURE 24



APPROVED C.R. FIG.
BY CLASS, SUBCLASS
DRAFTSMAN

FIGURE 25



100-21369-22233-102
AUG 01 2002
351

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN:		

100081965 , 100081966

FIGURE 26A

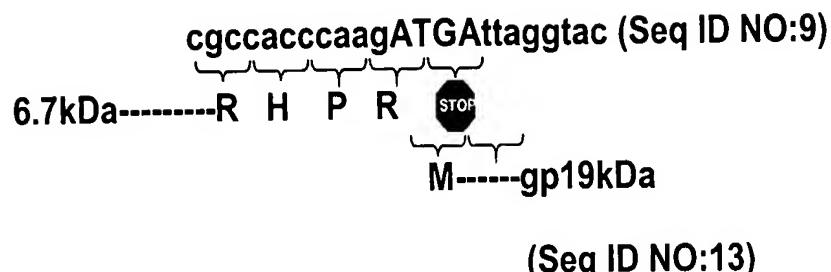


FIGURE 26B

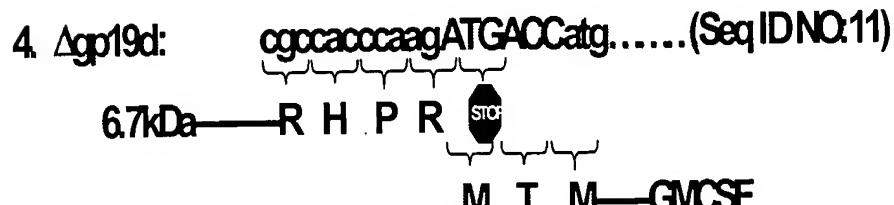
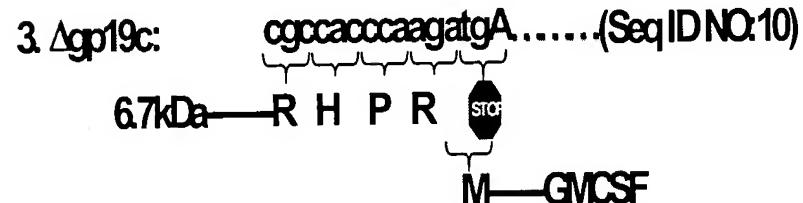
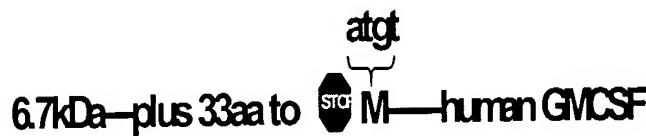


FIGURE 27A

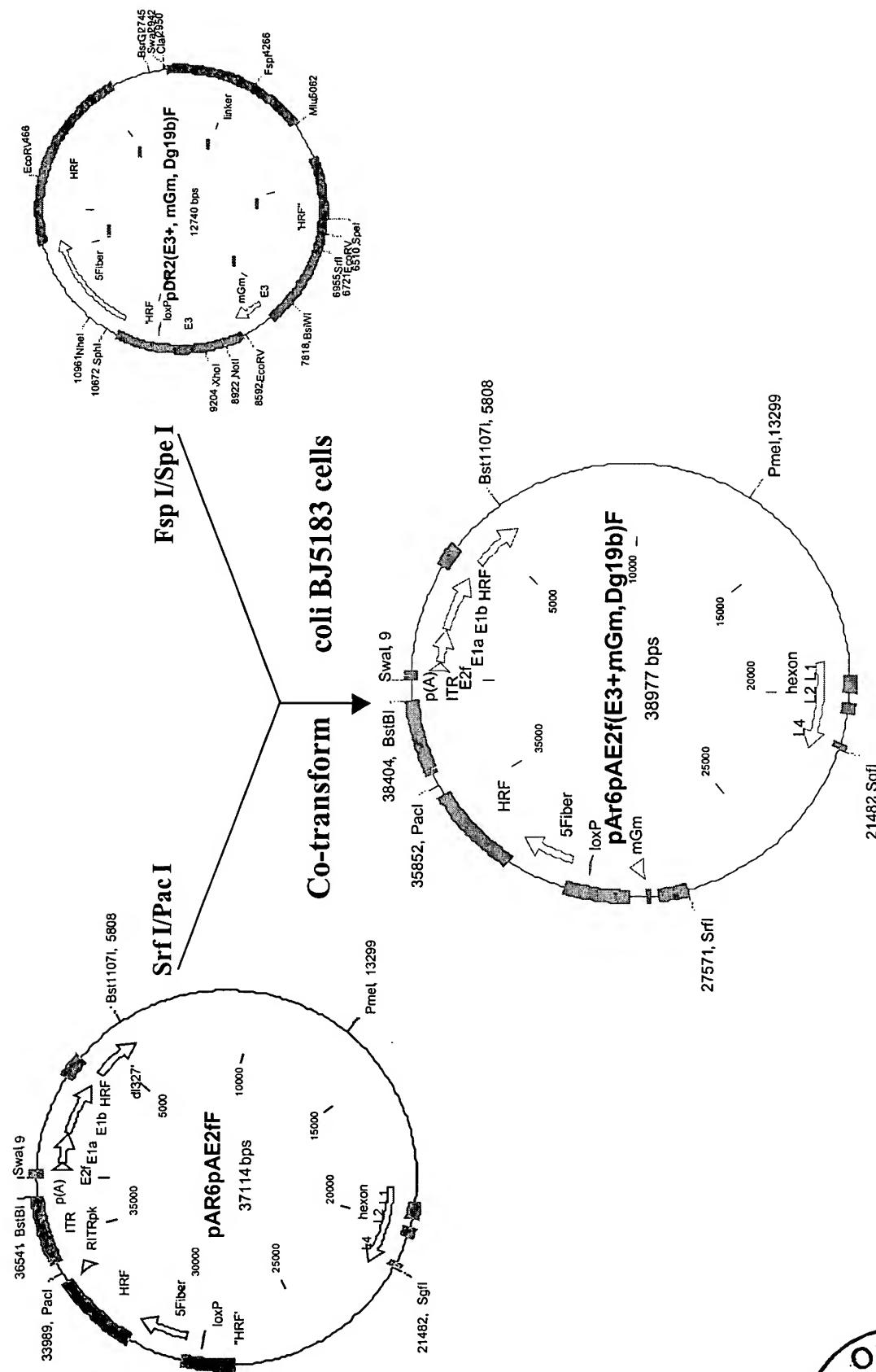


FIGURE 27B

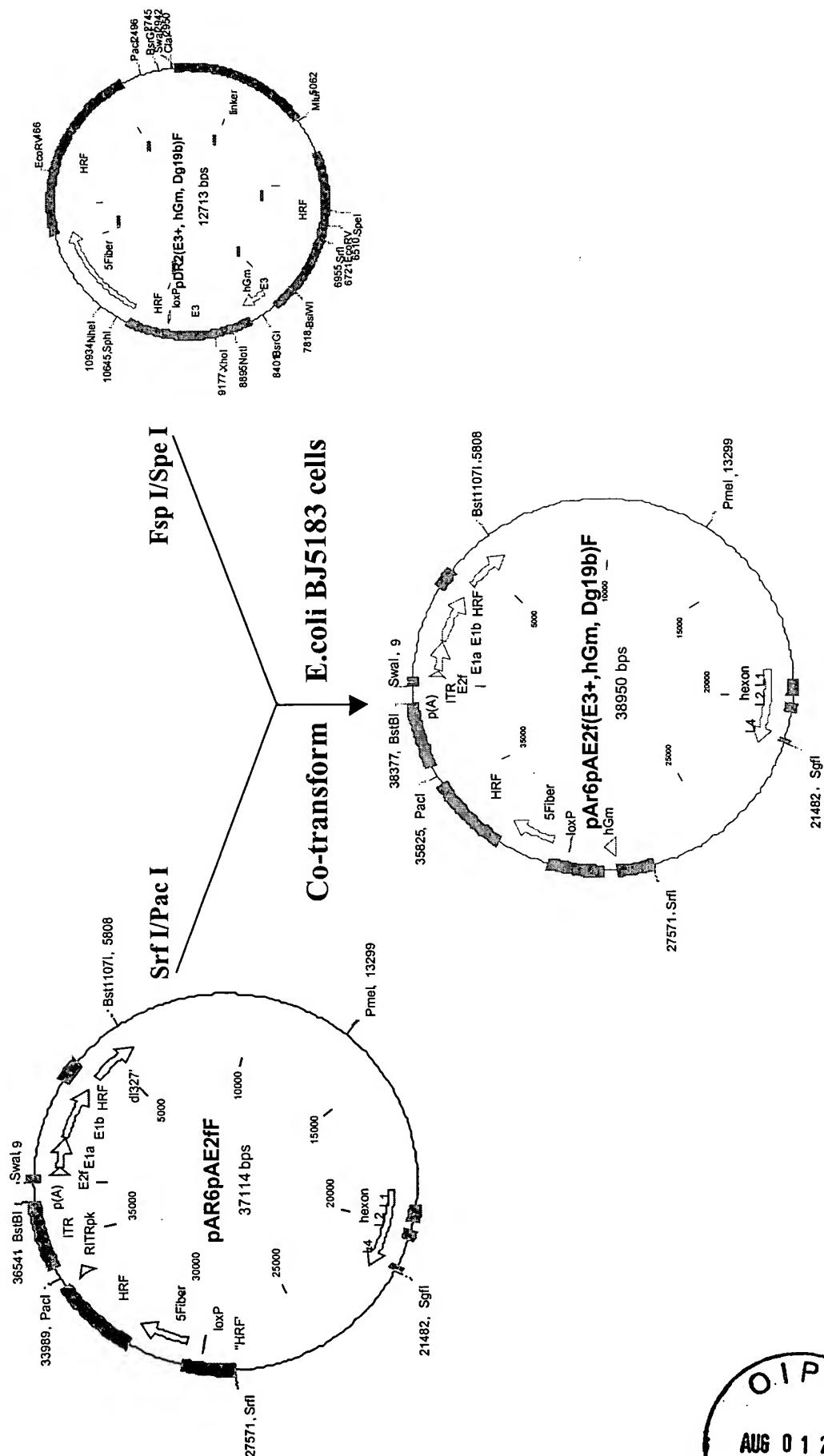
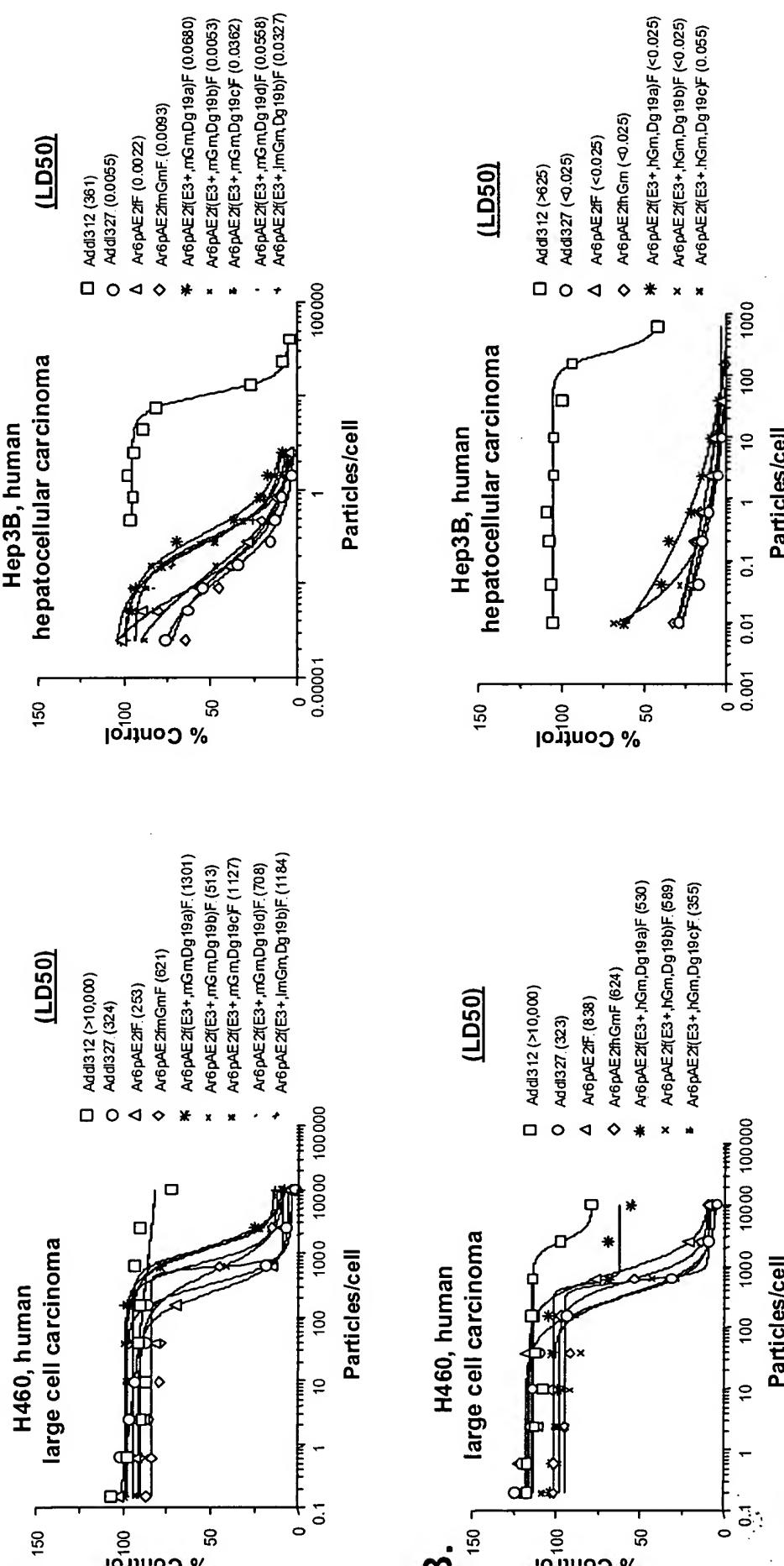


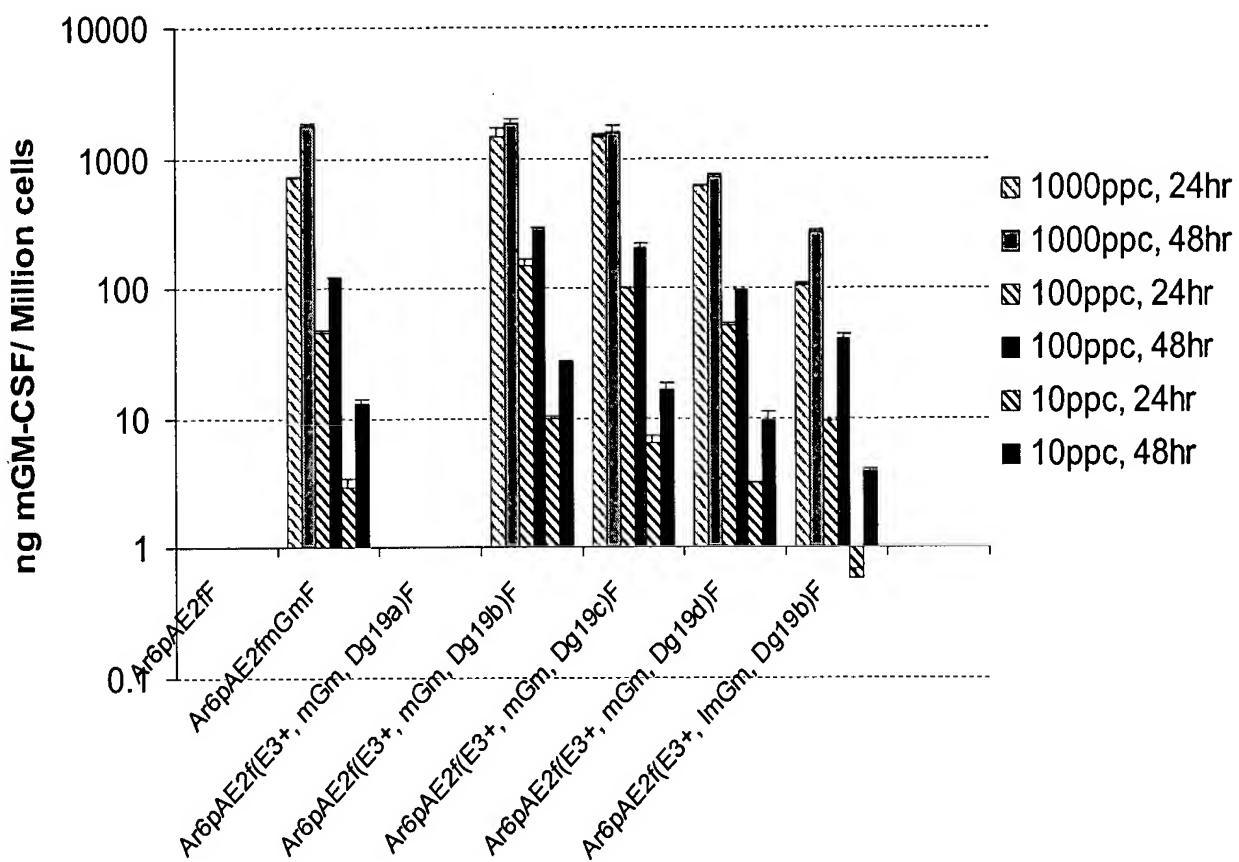
FIGURE 28



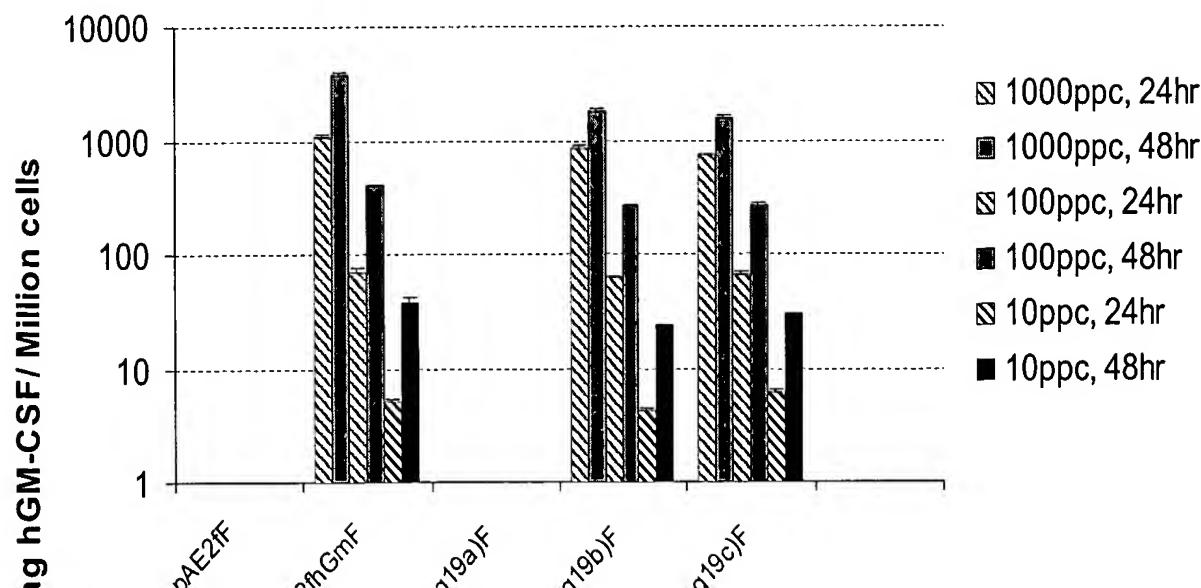
100 90 80 70 60 50 40 30 20 10 0 100000
AUG 01 2002
C 54 314 01000
DRAFTSMAN

Figure 29

a. Mouse GM-CSF expression in H460 cells



b. Human GM-CSF expression in H460 cells



100031369 . 100031369

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN:	

Figure 30

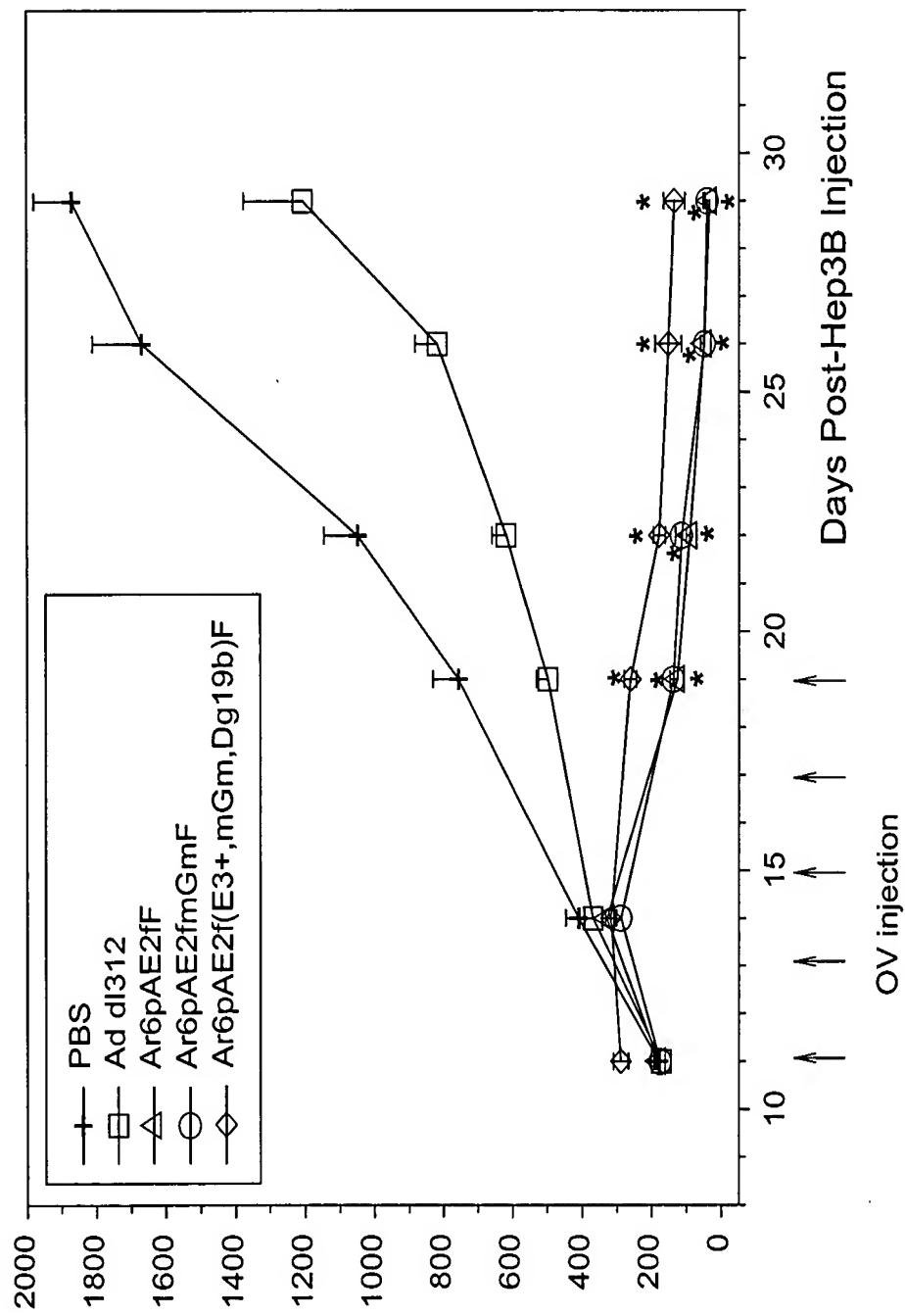
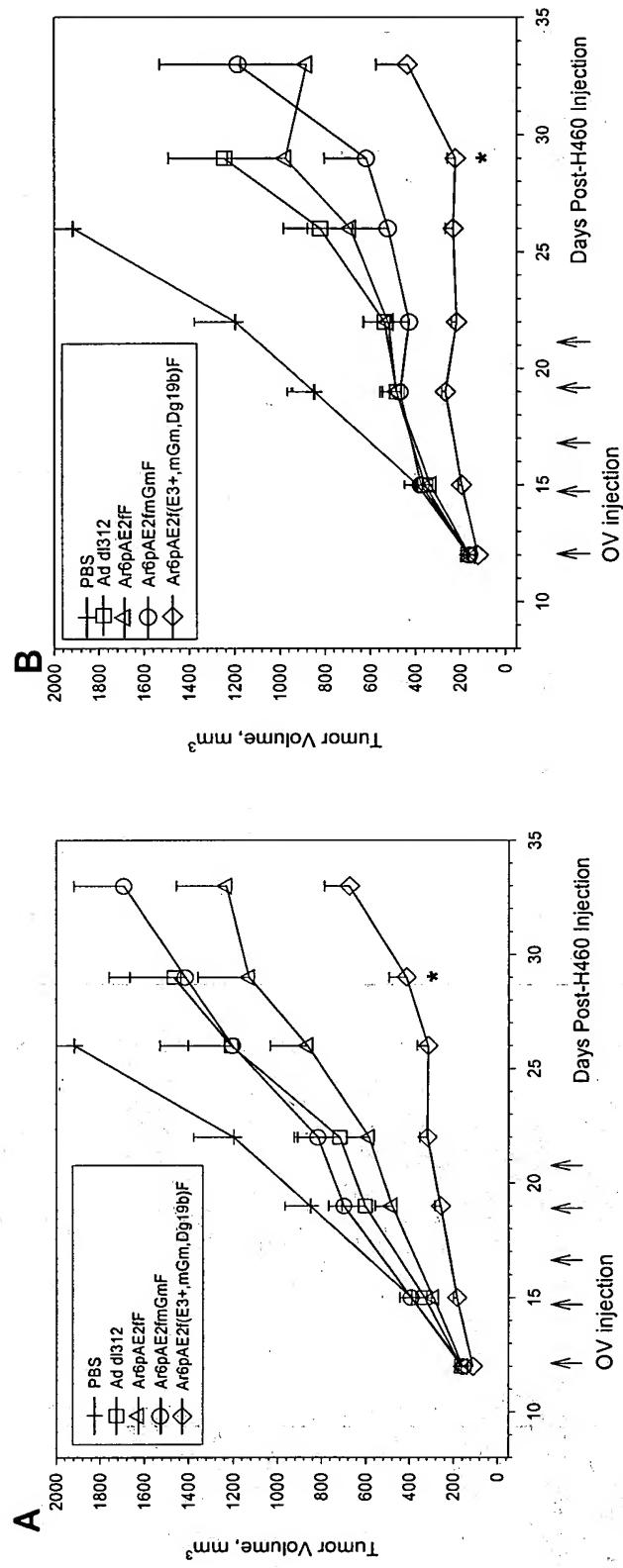


Figure 31

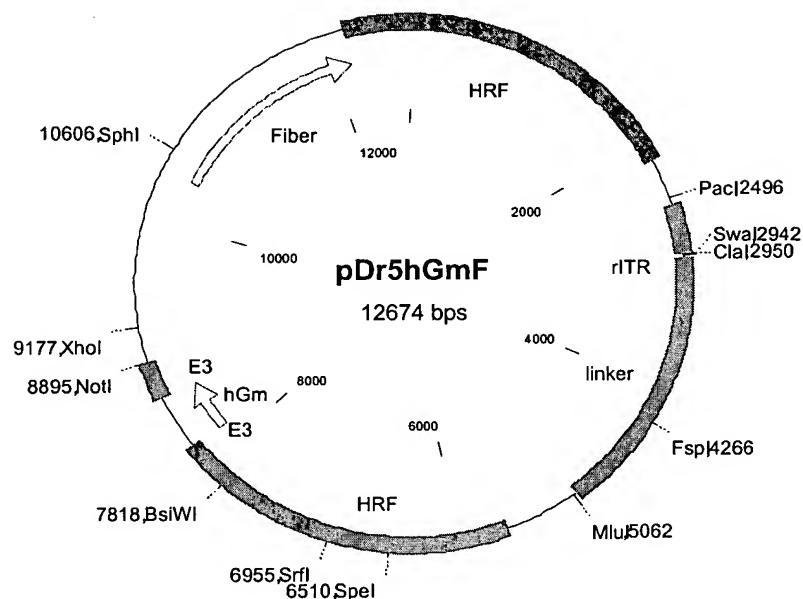


APPROVED BY C.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

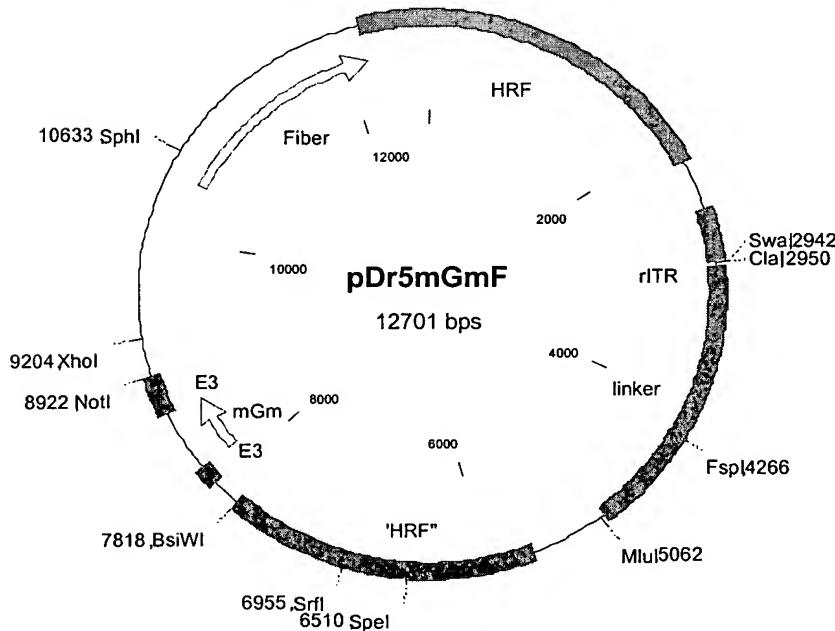
10670317659 , 0203102

Figure 32

A. pDr5hGmF



B. pDr5mGmF



O P E J C 5
AUG 01 2002
PATENT & TRADEMARK OFFICE

Figure 33

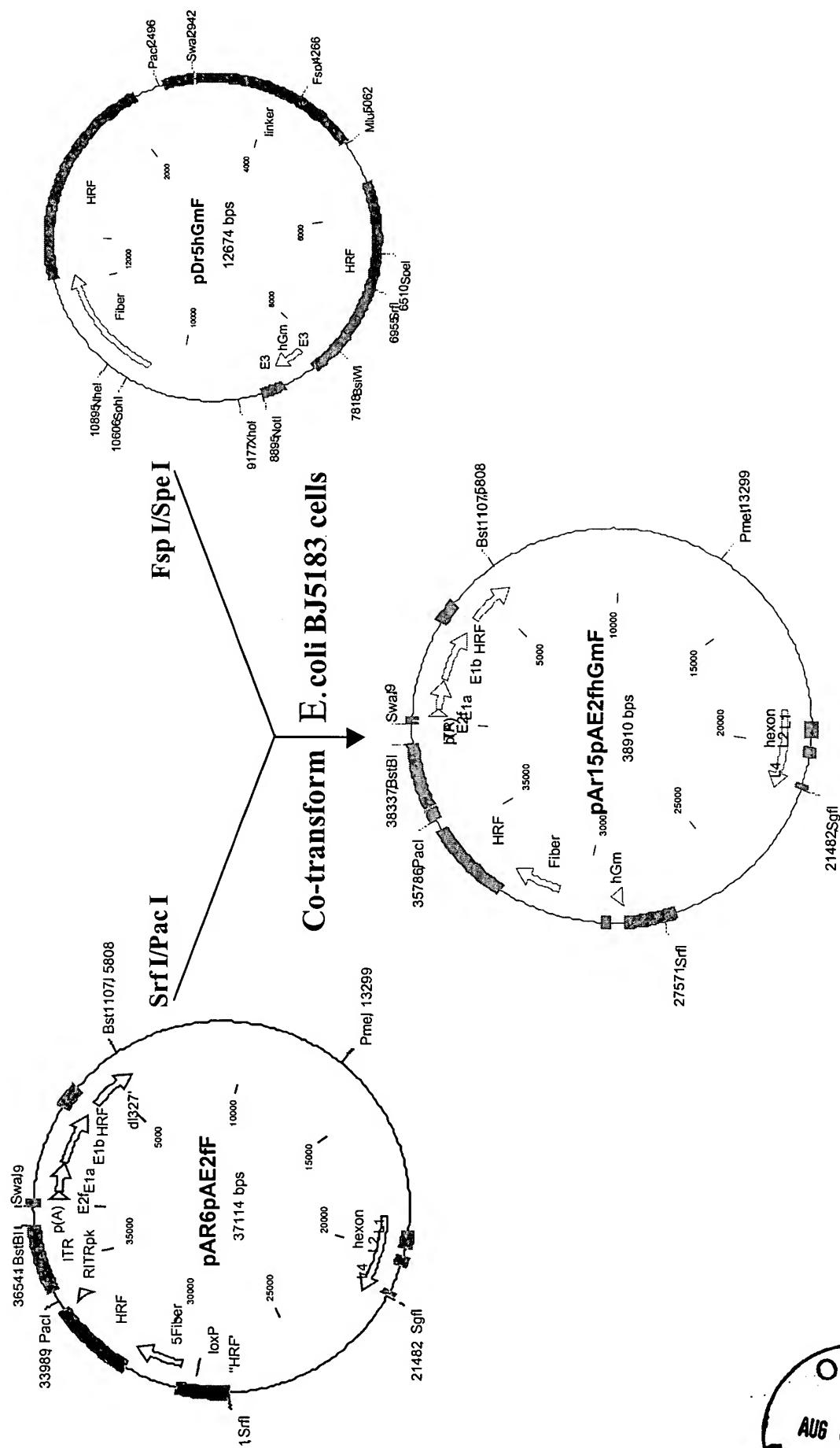


Figure 34

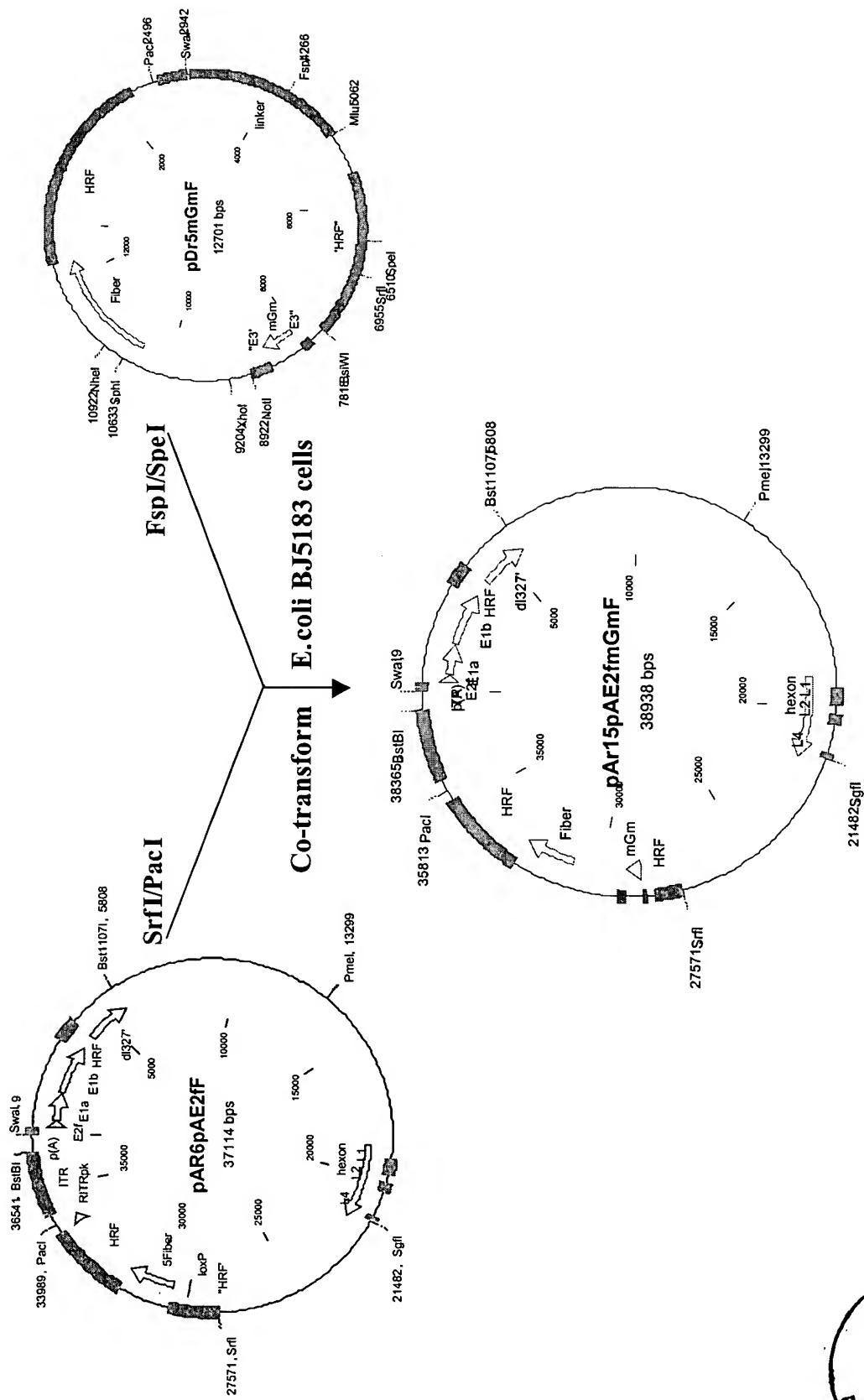
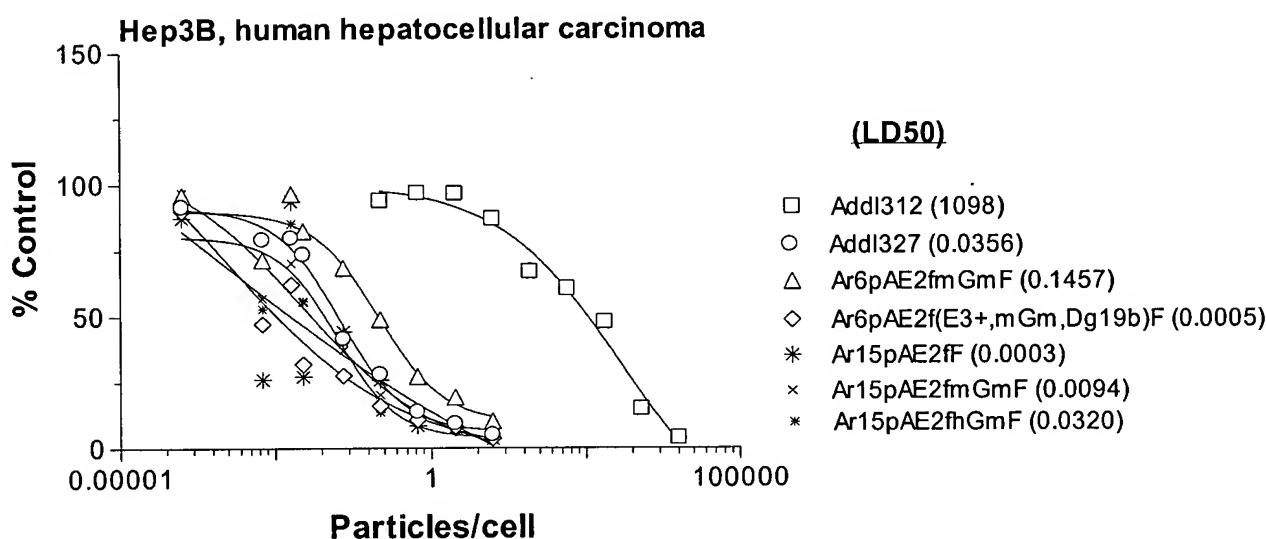
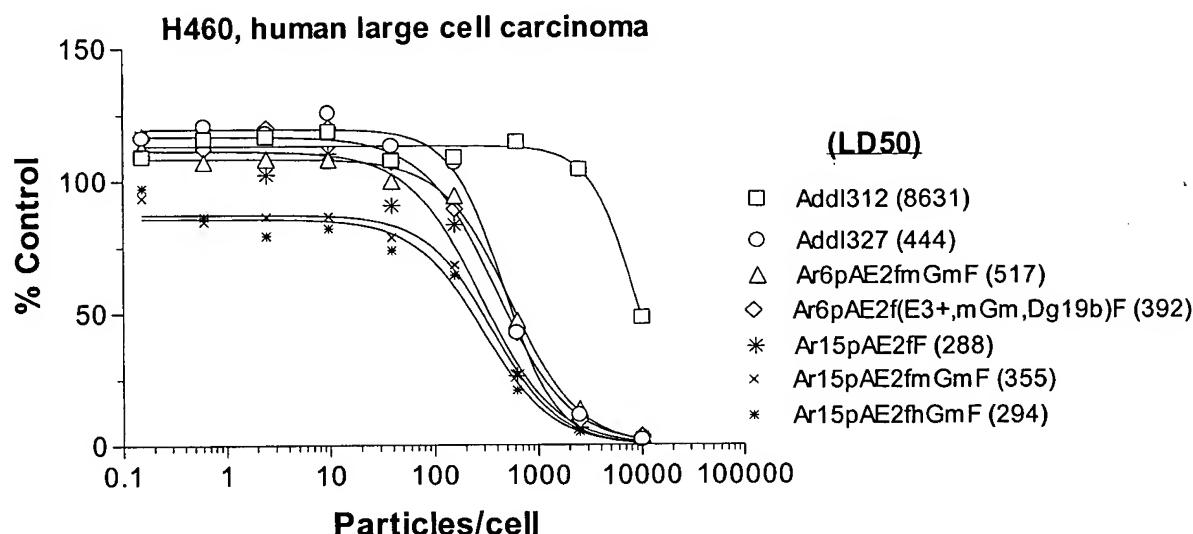


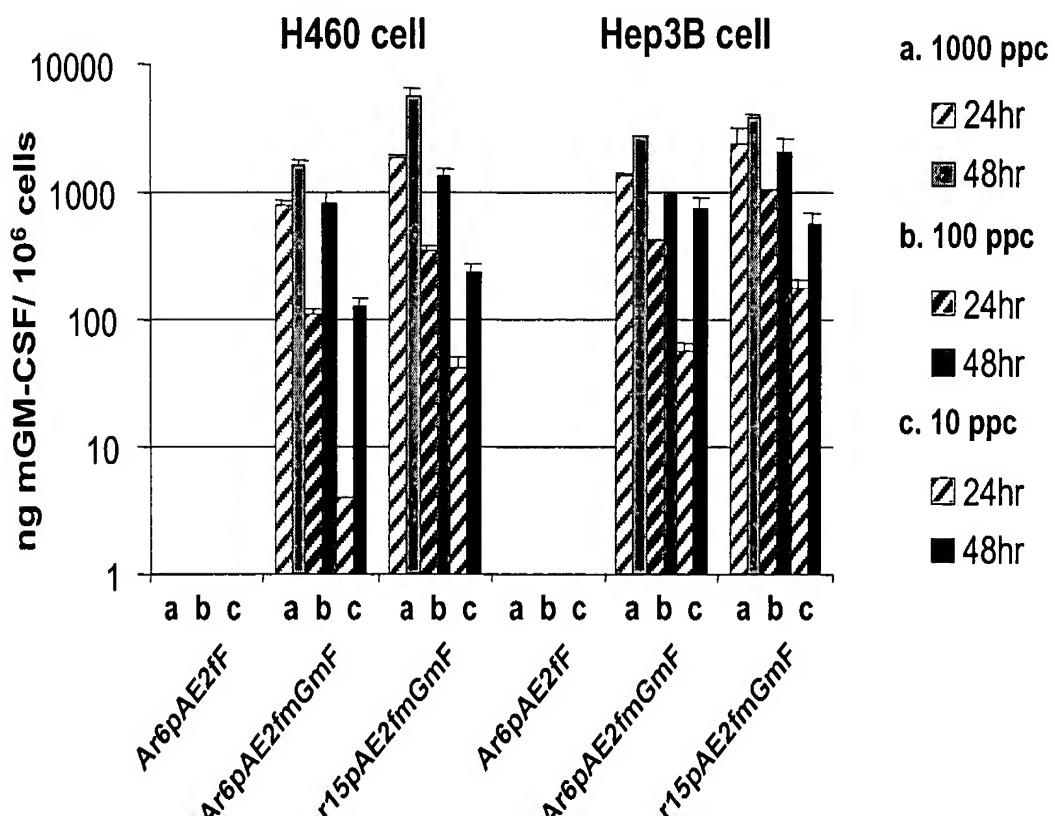
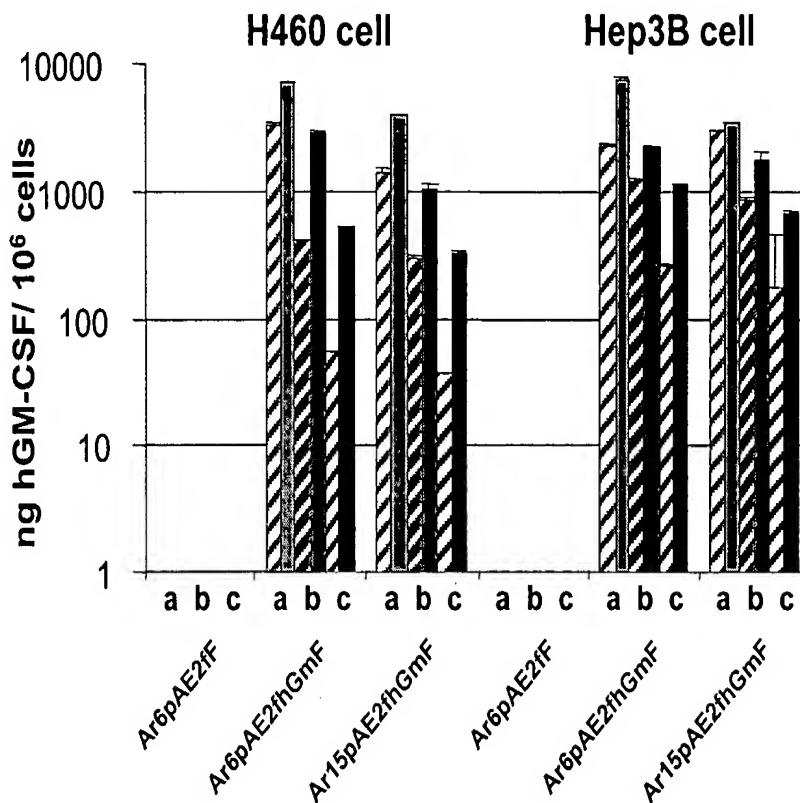
Figure 35



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

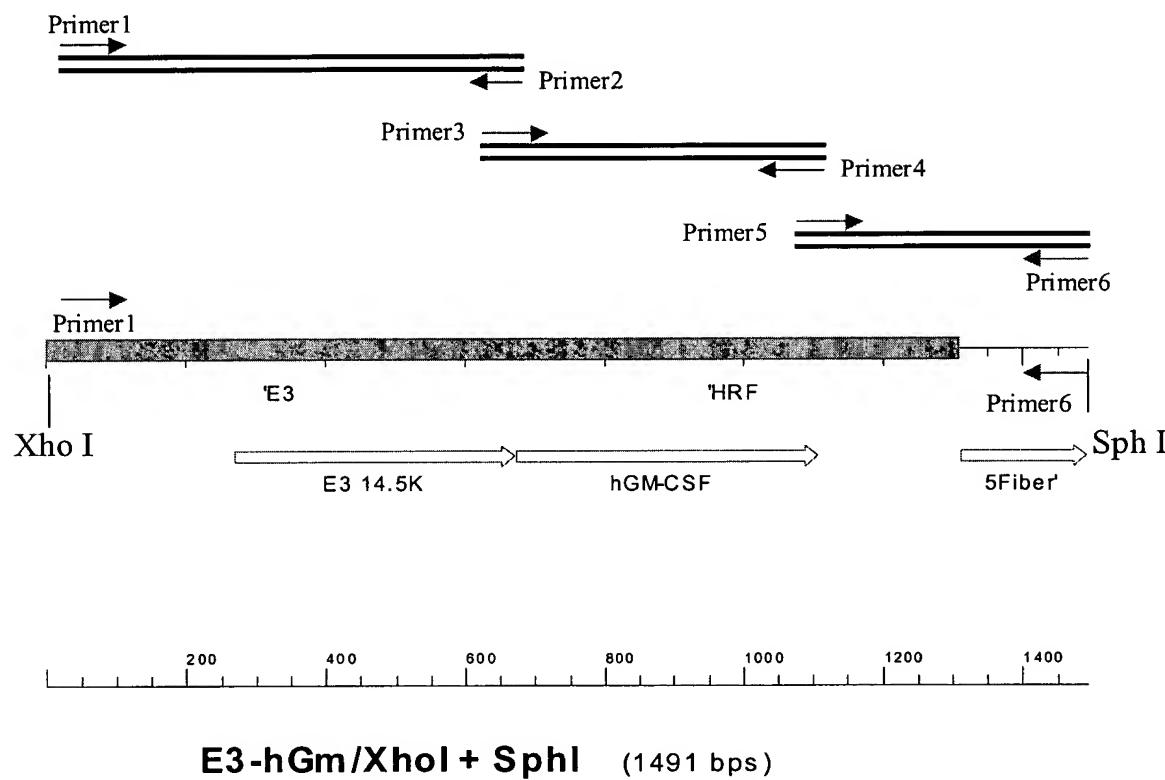
1051213369 122011032

Figure 36



APPROVED D.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

Figure 37



OPIE JC5439
AUG 01 2002

APPROVED	C.G. FIG.
BY	CLASS : SUBCLASS
DRAFTSMAN	

Figure 38A

ggaggagATGacTGAttaggtac (Seq ID NO:14)
E3 14.5kDa-----G G D D STOP (Seq ID NO:16)
M-----E3 14.7kDa

Figure 38B

ggaggagacgacTGACC atg..... (Seq ID NO:15)
E3 14.5kDa-----G G D D STOP M-----GMCSF

Figure 39

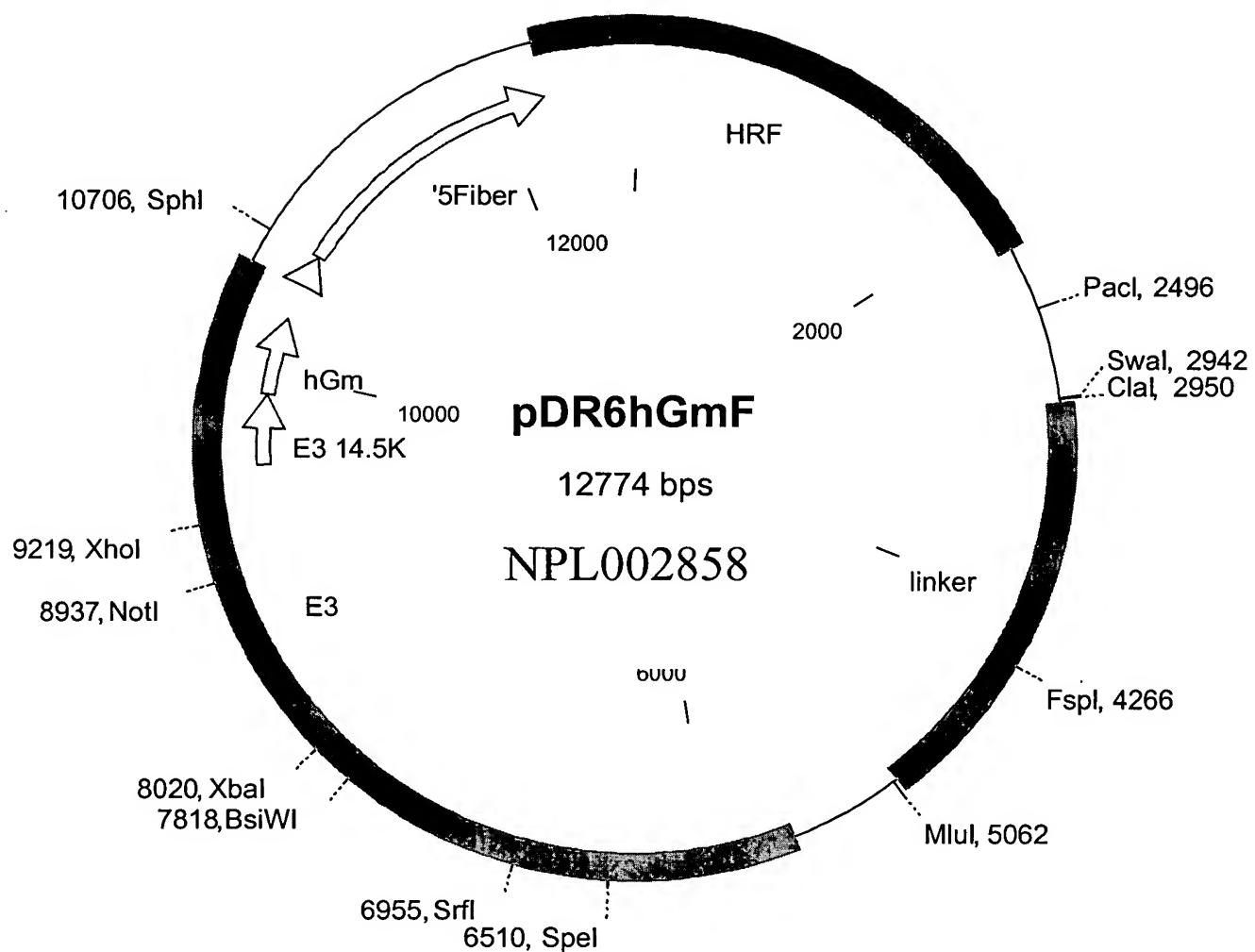


Figure 40

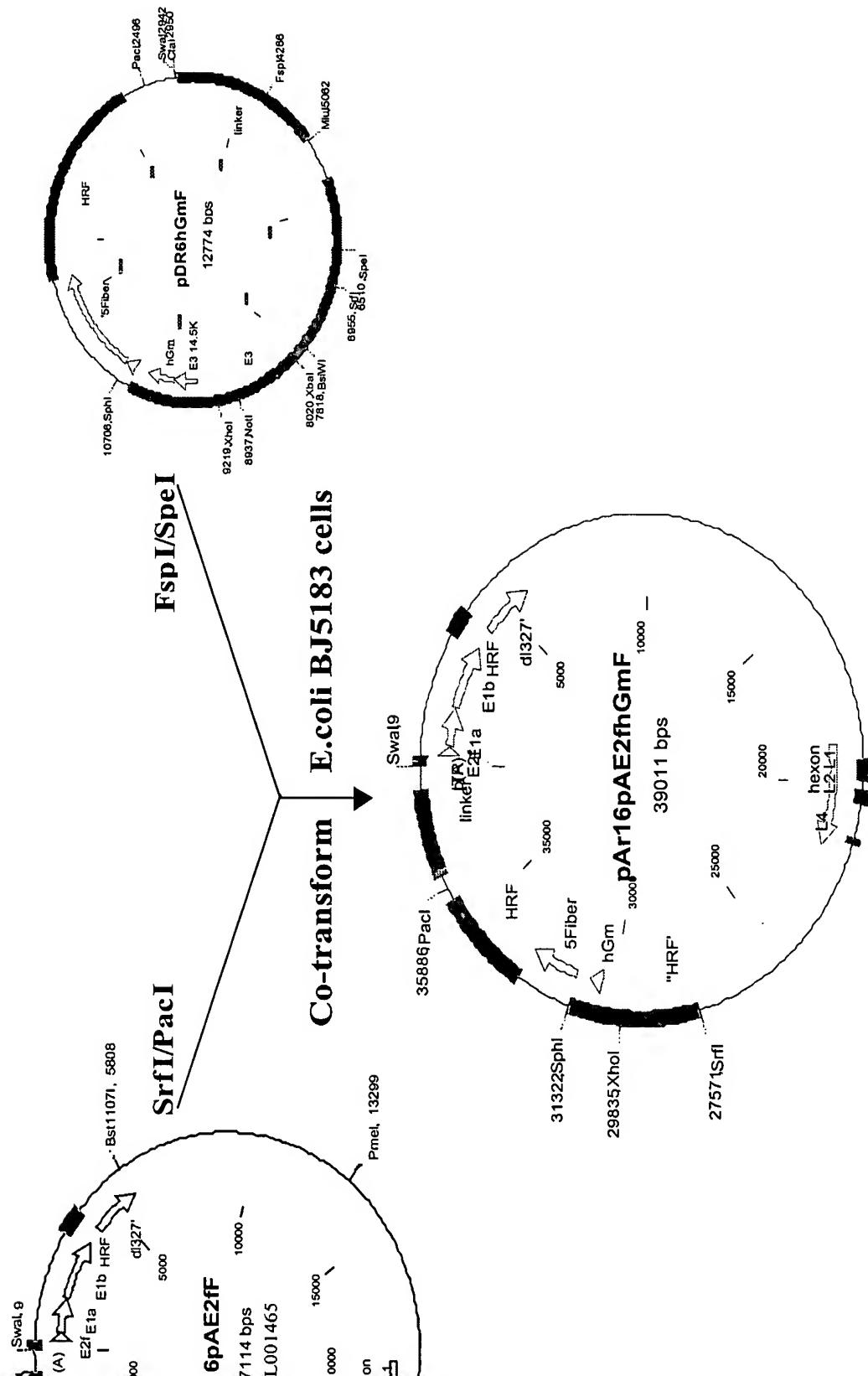


Figure 41

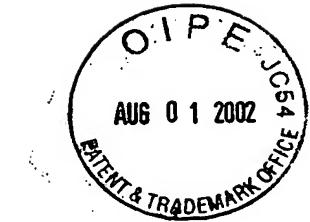
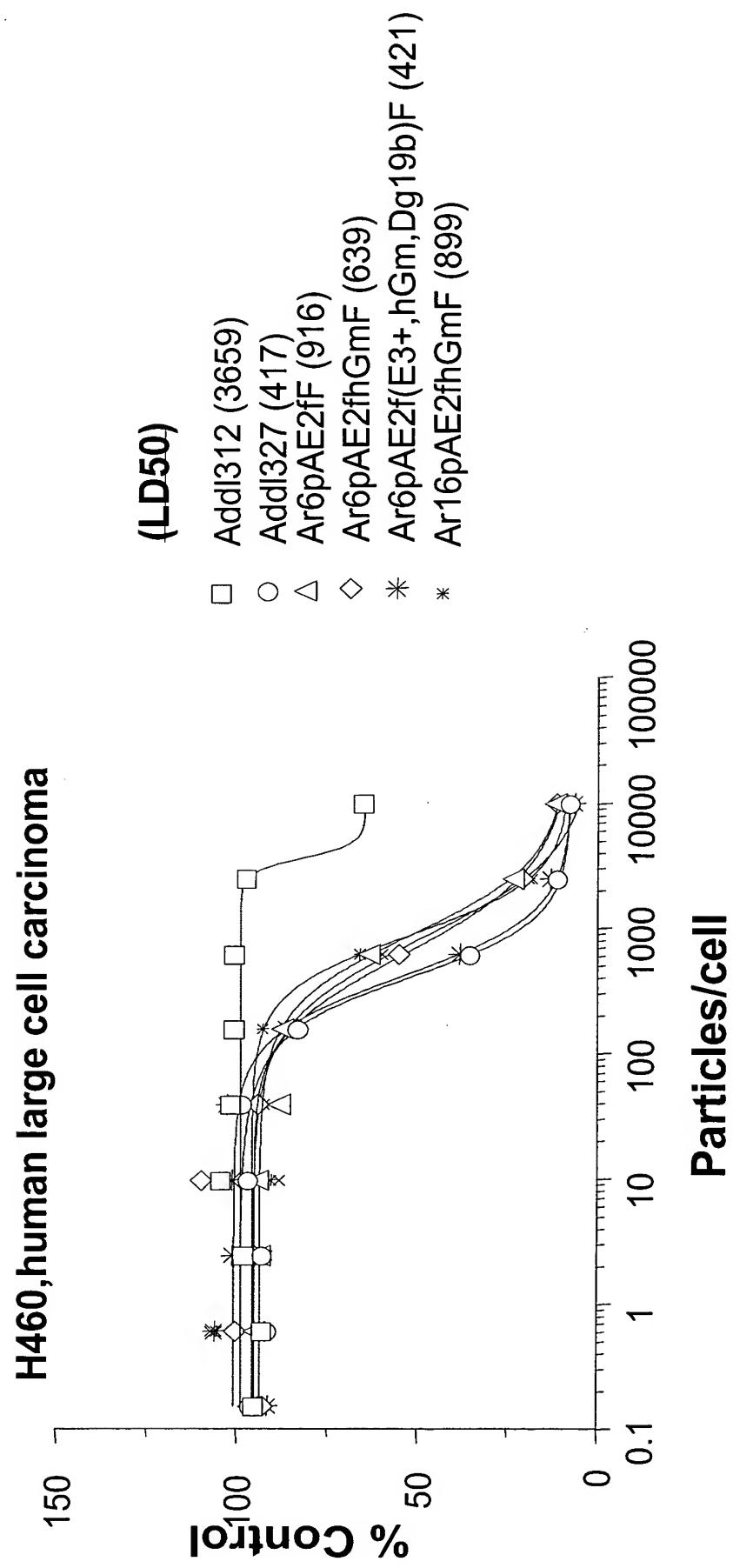
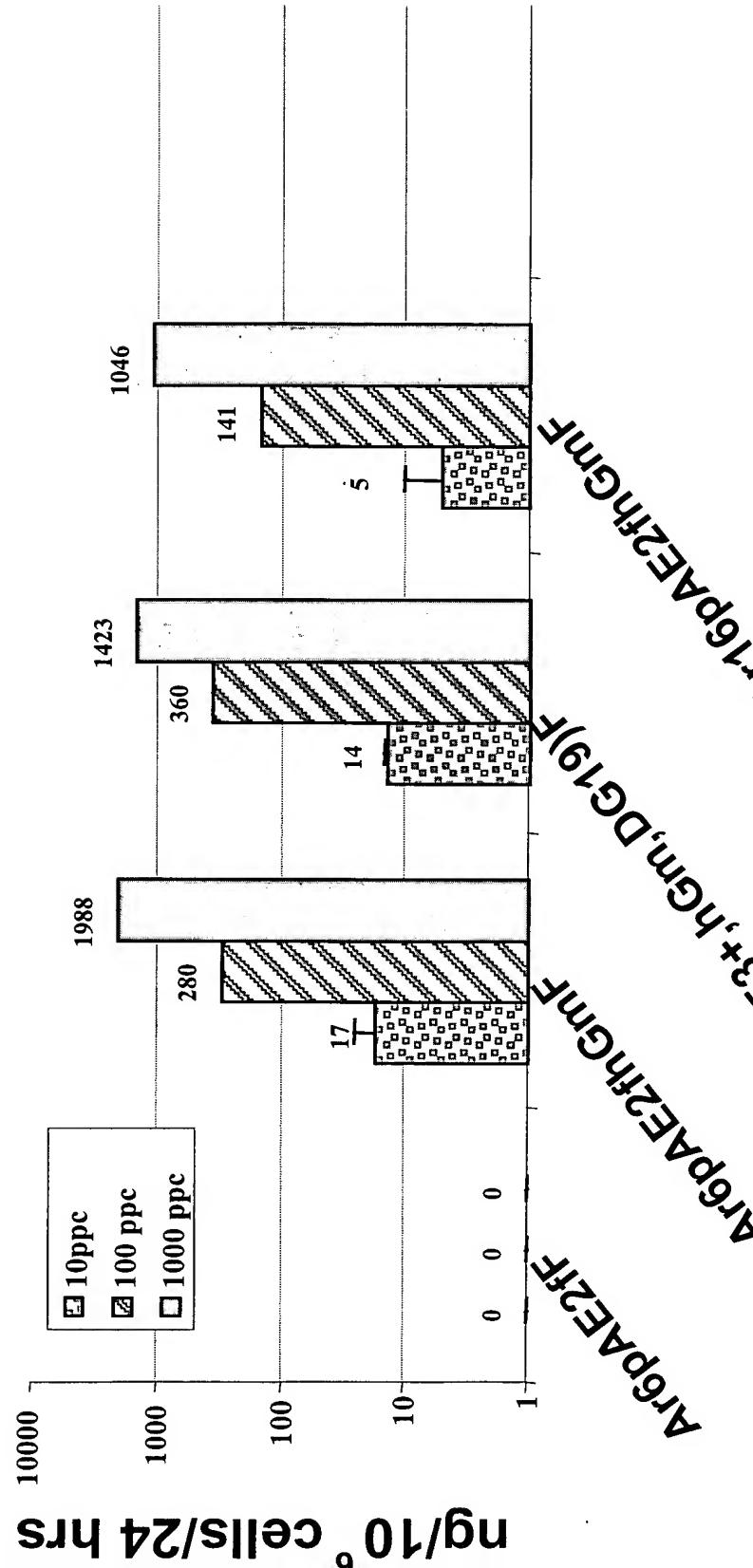


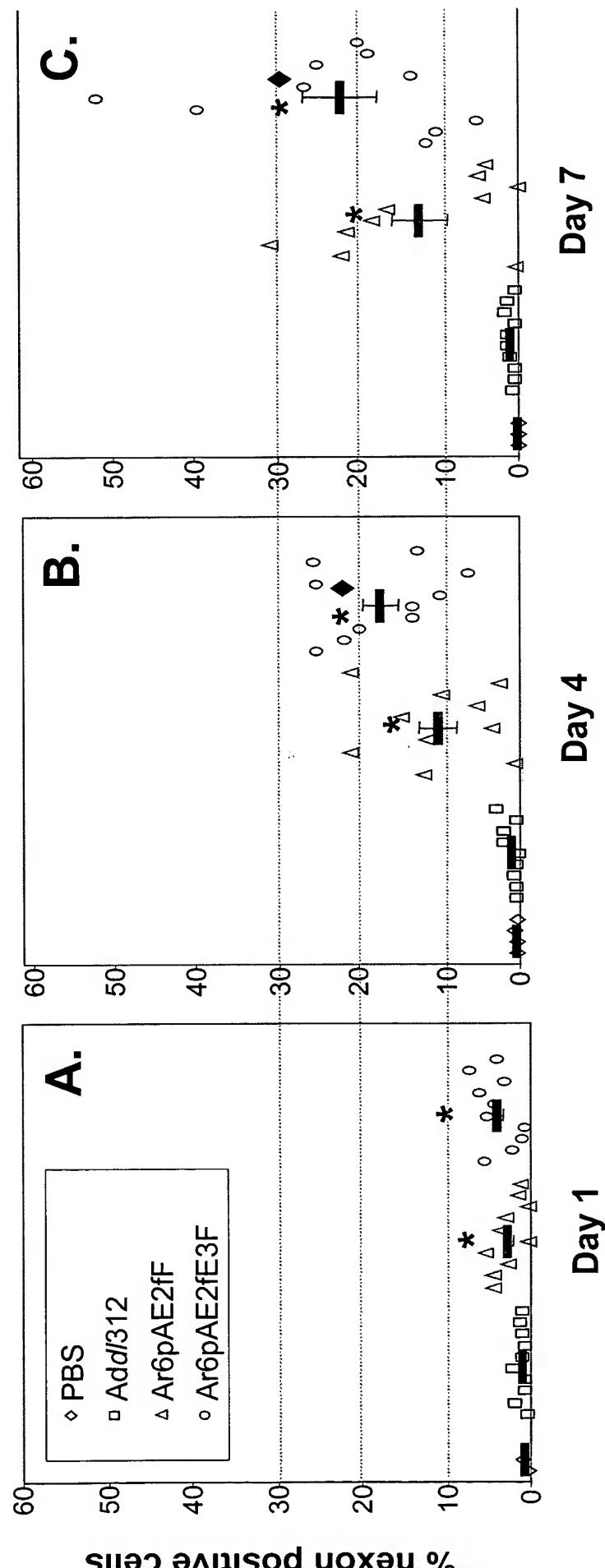
Figure 42



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

44-2669-080102

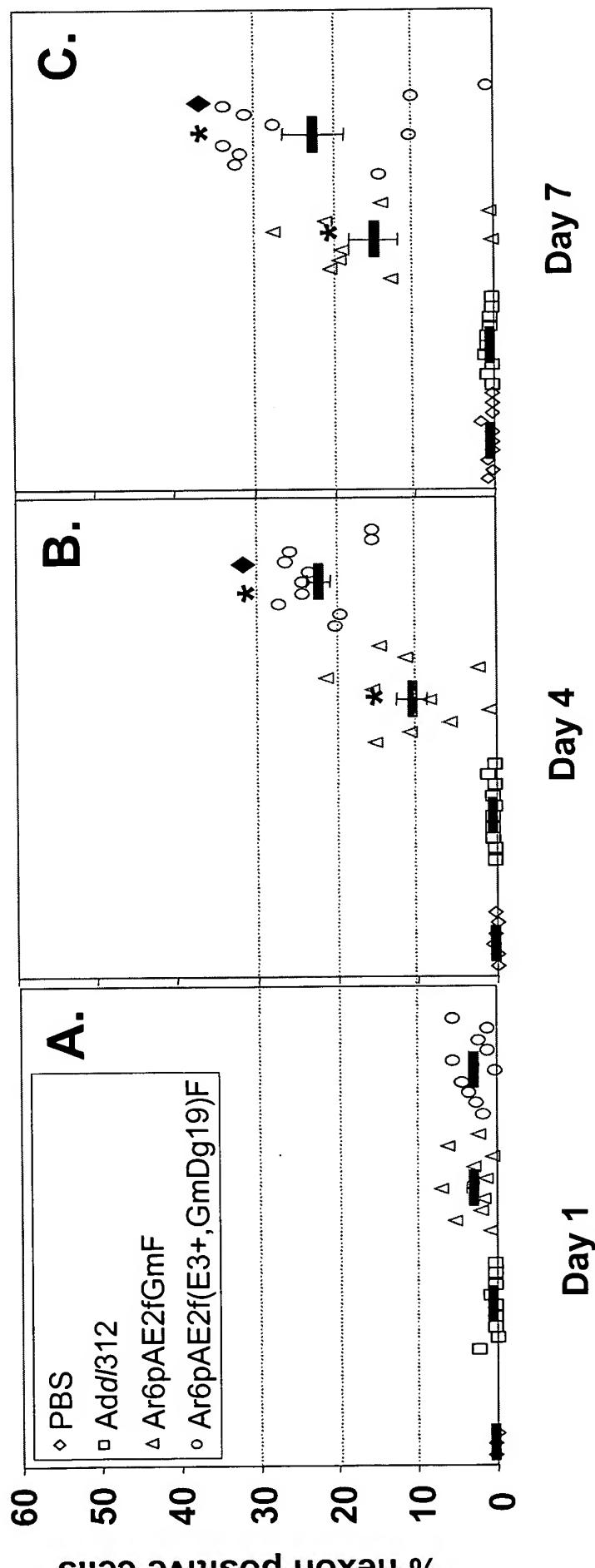
Figure 43



p<0.05 between Ar6pAE2fF or Ar6pAE2fE3F and Add/312, ANOVA
 p<0.05 between Ar6pAE2fF and Ar6pAE2fE3F vectors, ANOVA

44-2669-080102
 AUG 01 2002
 JCS 4101
 354

Figure 44



p<0.05 between Ar6pAE2fhGmF or Ar6pAE2f(E3+,hGm,Dg19)F and Addl312, ANOVA
 p<0.05 between Ar6pAE2fhGmF and Ar6pAE2f(E3+,hGm,Dg19)F vectors, ANOVA

卷之三

Day 1

Day 4

Day 7

Figure 45

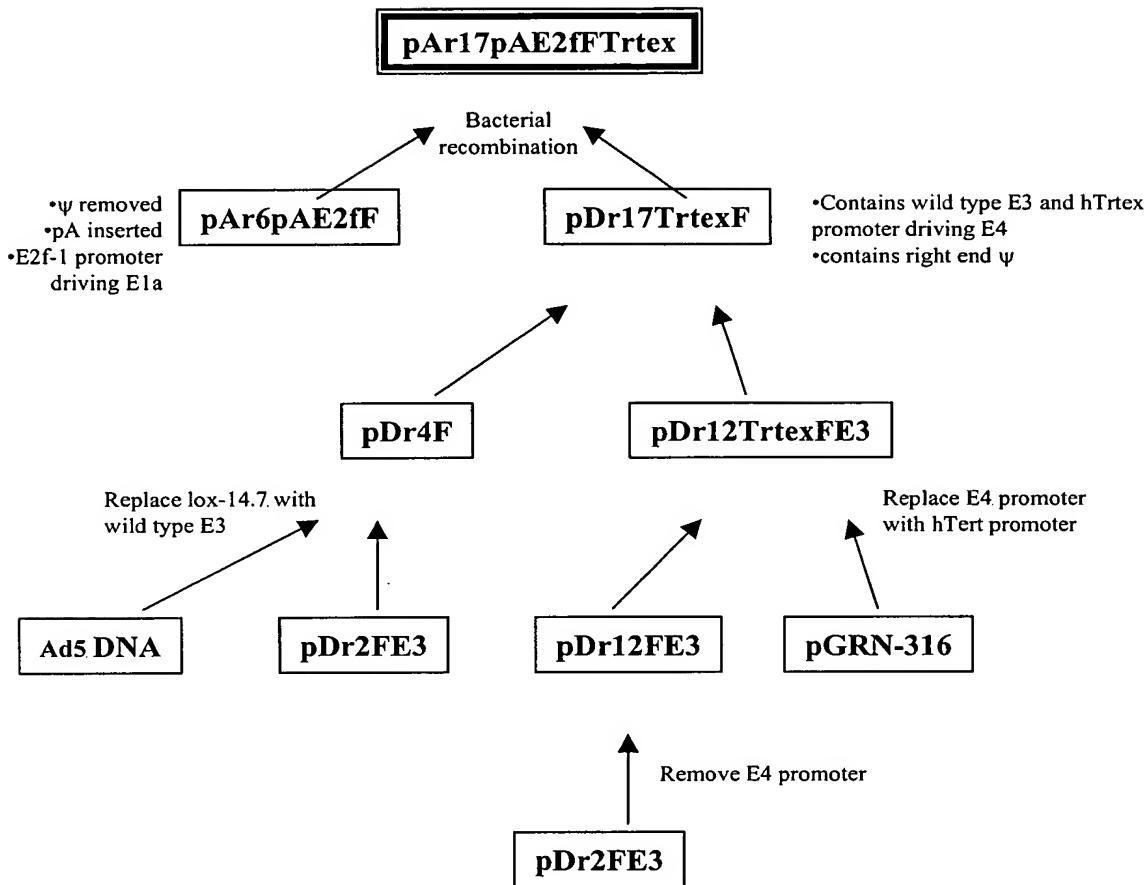
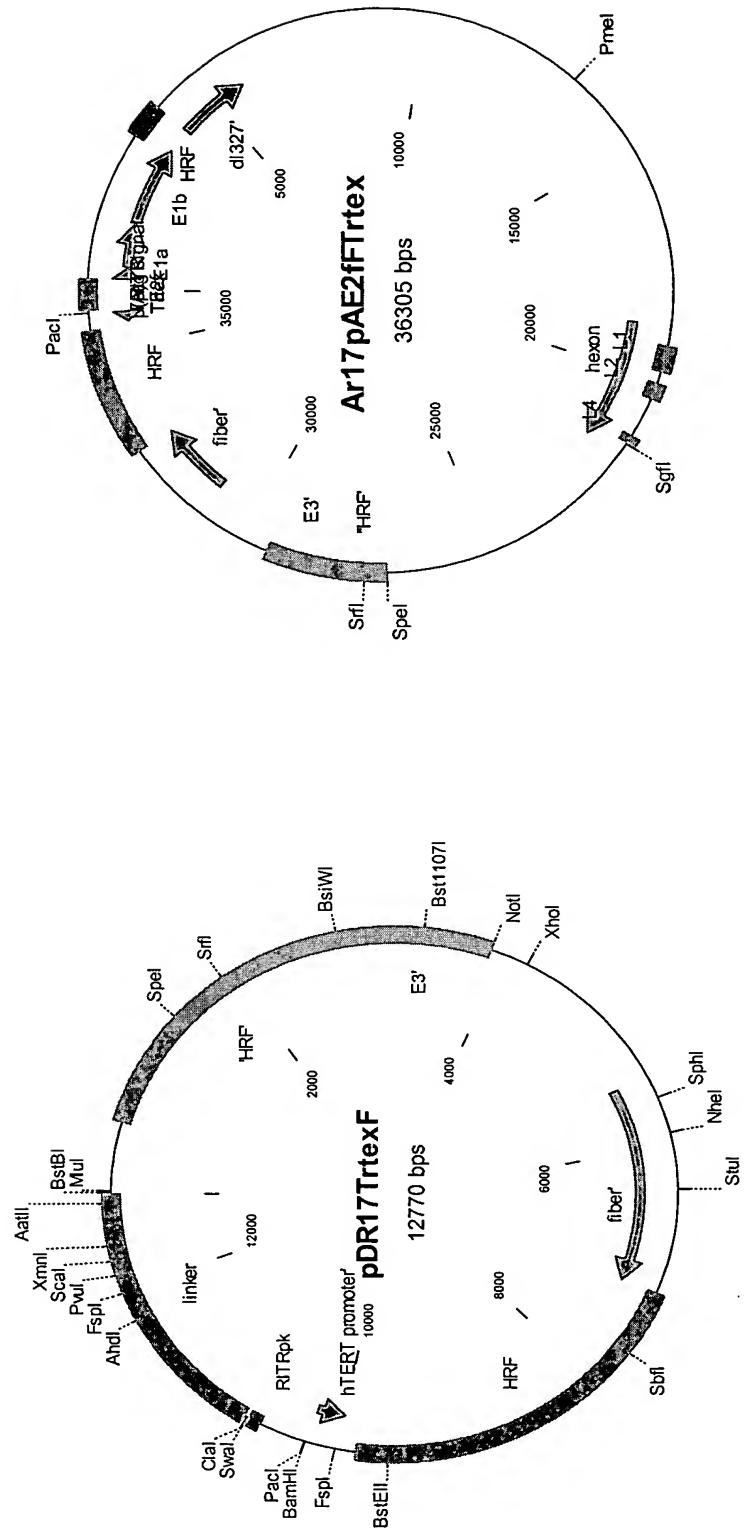


Figure 46



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

2001 1969.020427

Figure 47

35351 agtgctaaaa agcgaccgaa atagcccgaa ggaatacata cccgcaggcg
 35401 tagagacaac attacagccc ccataggagg tataacaaaa ttaataggag
 35451 agaaaaaacac ataaacacct gaaaaaccct cctgcctagg caaaatagca
 35501 ccctcccgct ccagaacaac atacagcgct tcacagcggc agcctaacag
 35551 tcagccttac cagtaaaaaa gaaaacctat taaaaaaaaa ccactcgat
 35601 caattcgcgg gggtggccgg ggccagggtc tcccacgtgc gcagcaggac
 35651 gcagcgctgc ctgaaactcg cgccgcgagg agagggcgaa gccgcggaaa
 35701 ggaaggggag gggctggag ggcccgagg gggctggcc ggggaccgg
 35751 gaggggtcgg gacggggcgg ggtccgcgcg gaggaggcgg agctggaagg
 35801 tgaaggggca ggacgggtgc cgggtcccc agtccctccg ccacgtgggg
 35851 ctaggatcct taattaagaa ttctacaatt cccaacacat acaagttact
 35901 ccgcctaaa accctggcg agtctccacg taaacggta aagtccccgc
 35951 ggccctagac aaatattacg cgctatgagt aacacaaaaat tattcagatt
 36001 tcacttcctc ttattcagtt ttcccgaa aatggccaaa tcttactcgg
 36051 ttacgccc aaattactaca acatccgcct aaaaccgcgc gaaaattgtc
 36101 acttcctgtg tacaccggcg cacacaaaa acgtcaactt tgccacatcc
 36151 gtcgcttaca tggttccgc cacacttgca acatcacact tccgcccacac
 36201 tactacgtca cccgccccgt tcccacgccc cgccacgt cacaactcc
 36251 accccctcat tatcatattg gttcaatcc aaaataaggt atattattga
 36301 tgatg



Figure 48

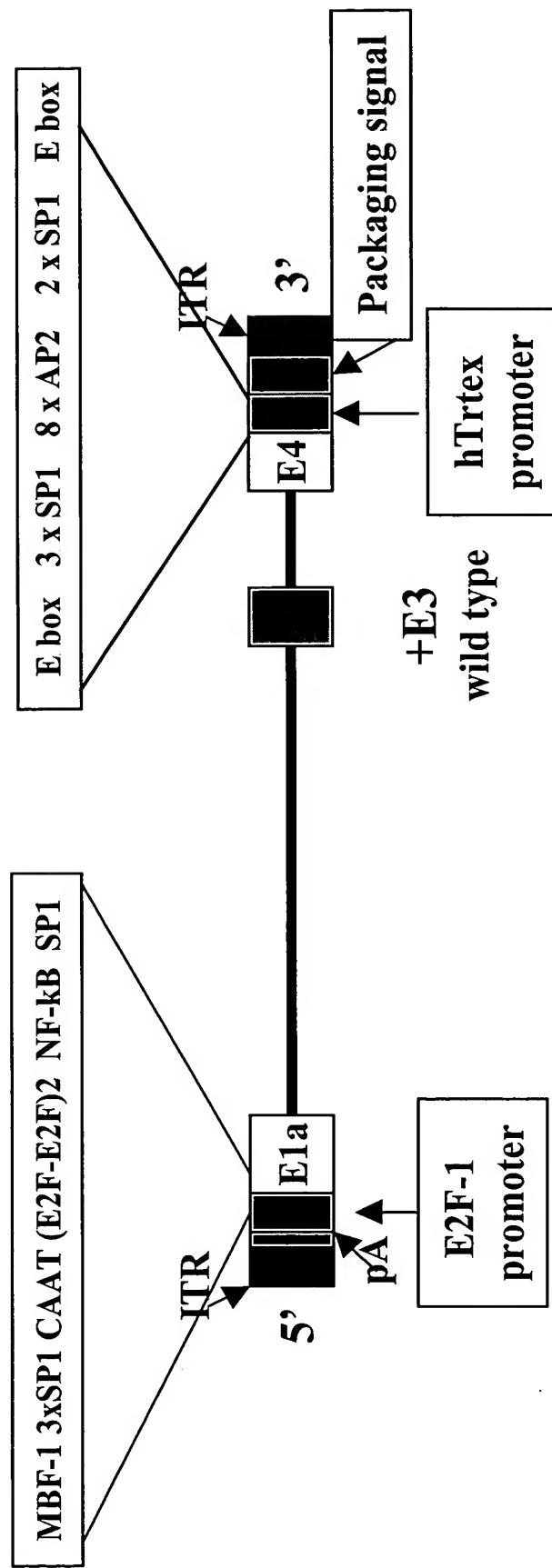
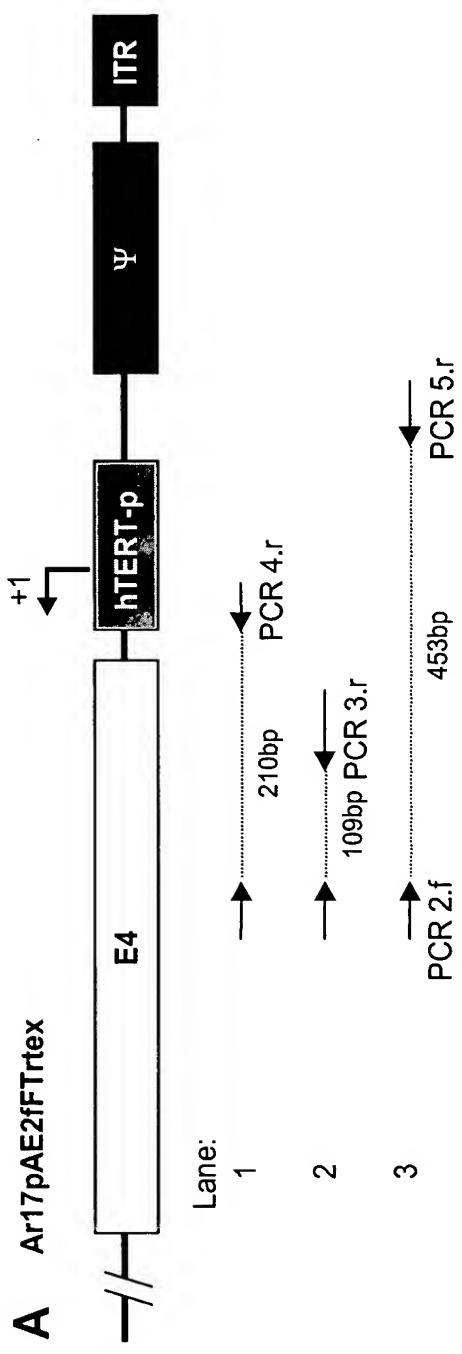


Figure 49



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

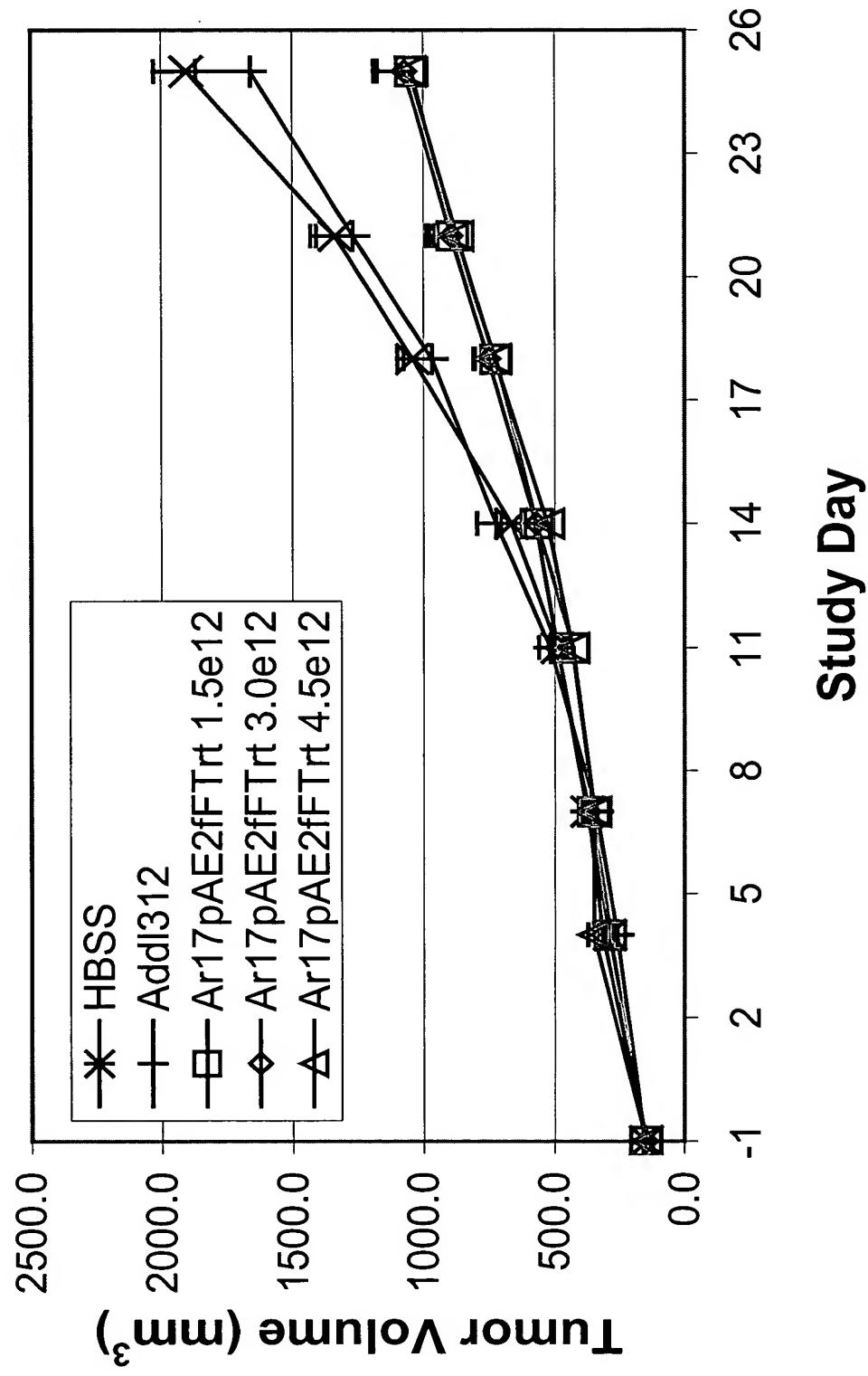
16219669 - 02031102

Figure 50

35521 ATACAGCGCT TCACAGCGGC AGCCTAACAG TCAGCCTTAC CAGTAAAAA GAAAACCTAT
 Ext P1 ←
 35581 TAAAAAAACA CCACTCGGGAT CAATTCGGCG GGGTGGCGGG GGGCCAGGGCT TCCCACGTGC
 ←
 35641 GCAGGAGGAC GCAGCGCTGC CTGAAATTCG CGCCCGGAGG AGAGGGGGG GCGGGAAA
 ←
 35701 AGGAACGGGA CGGGCTGGGA TGGCCCGGAA GGGGCTGGGC CGGGGACCCG GGAAGGGTTC
 ←
 35761 GGGACGGGGC GGGGTTCCGC CGGGACGGGG CGGAGCTGGA AGGTGAAGGG GCAGGACGGG
 ←
 35821 TGCCCGGGTC CCCAGTCCCT CCGGCCACGTG GGGCTAGGAT CCTTAATTAA GAATTCTACA
 ←
 35881 ATTCCCAACA CATAACAAGTT ACTCCGCCCT AAAACCCCTGG GCG



Figure 51



APPROVED **O.G. FIG.**
BY CLASS SUBCLASS
DRAFTSMAN

20230109610 000001002

Figure 52

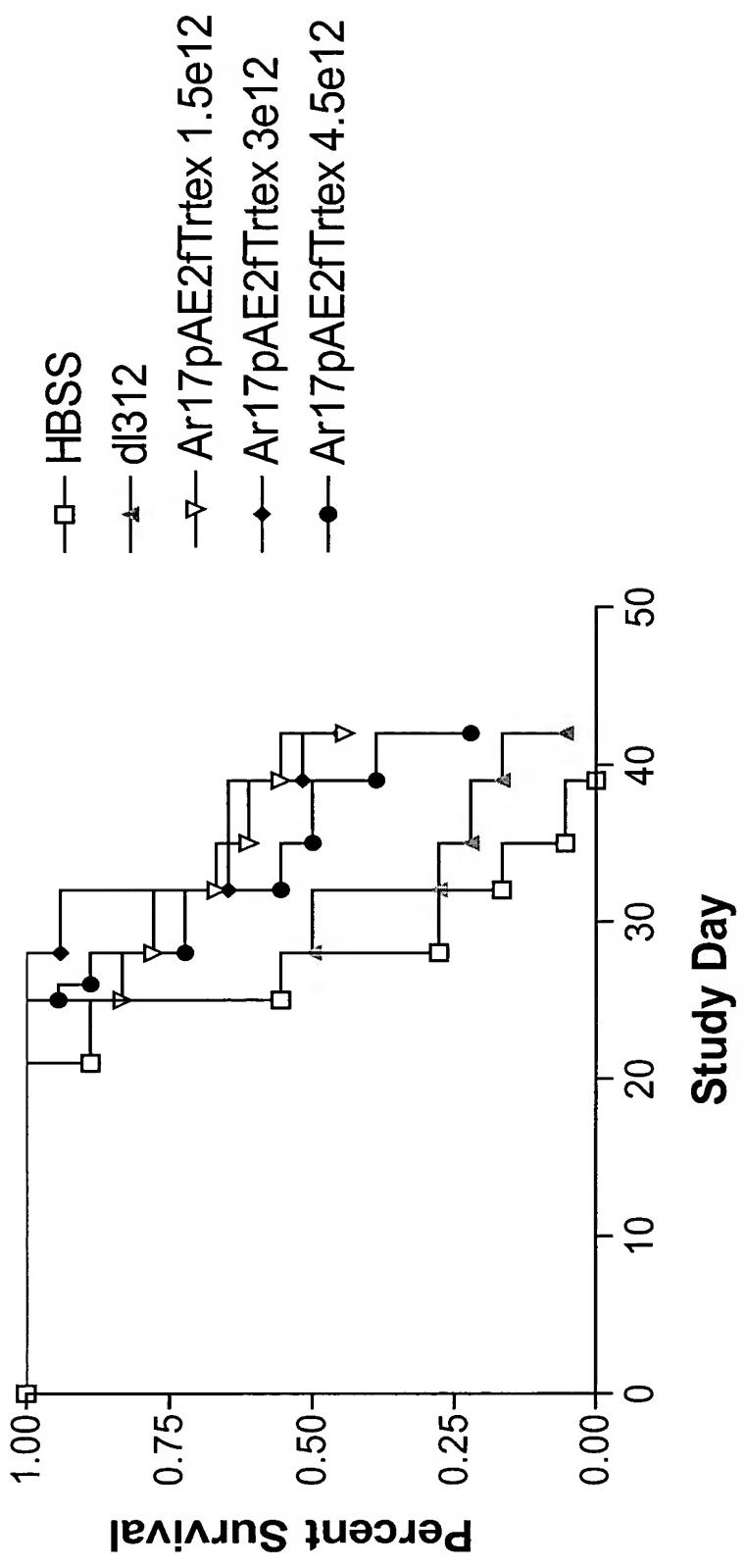


Figure 53

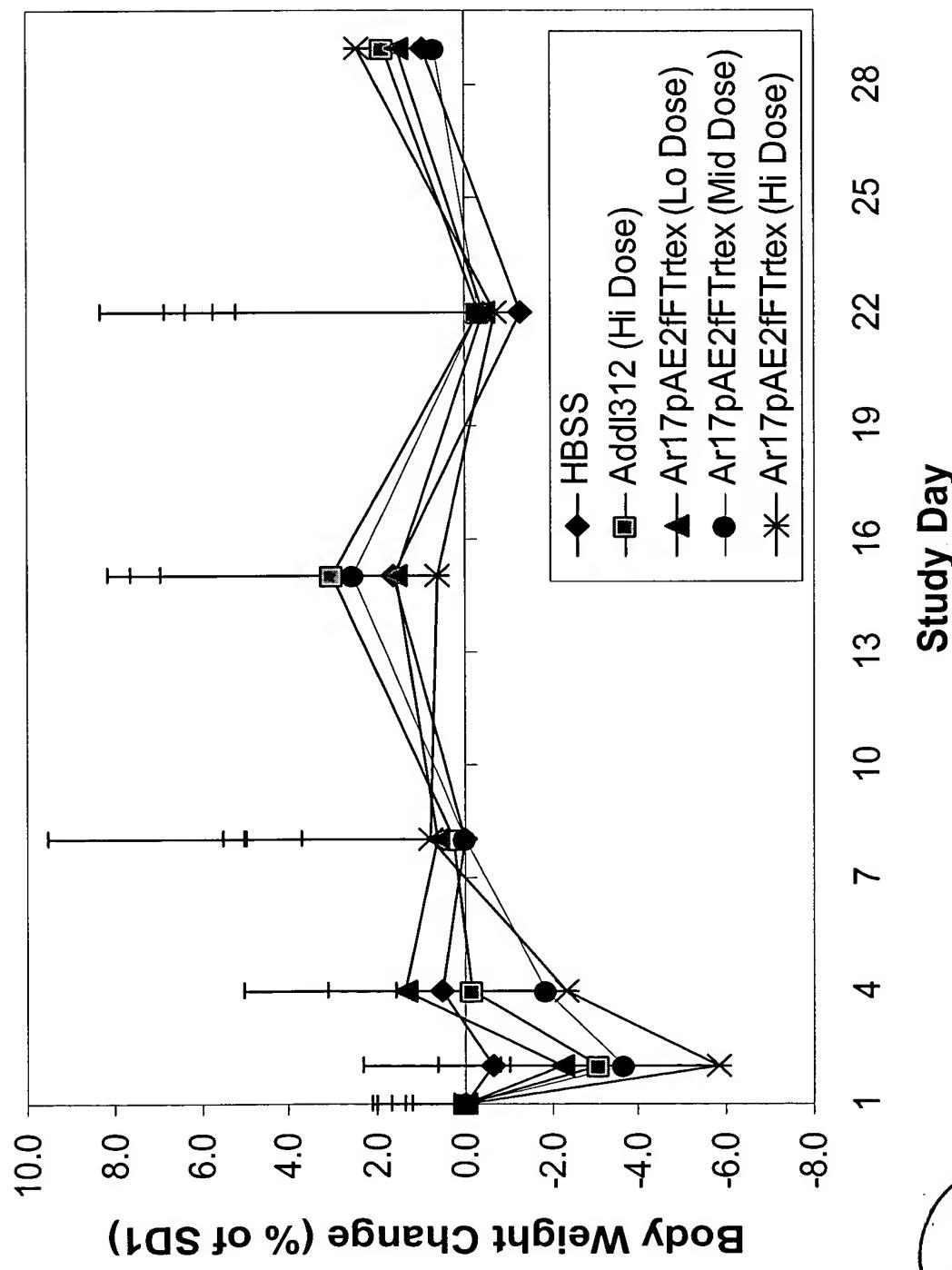


Figure 54

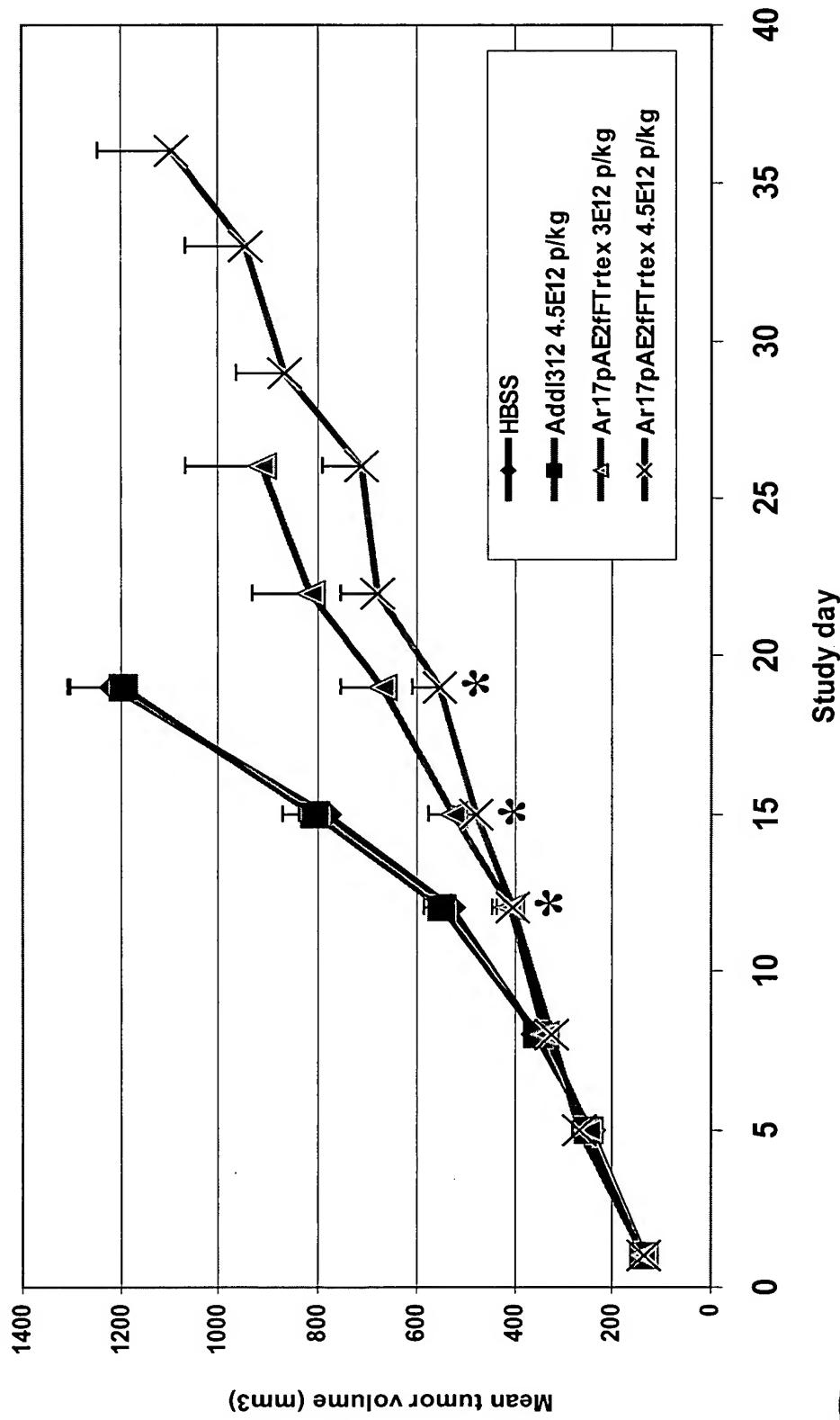


Figure 55

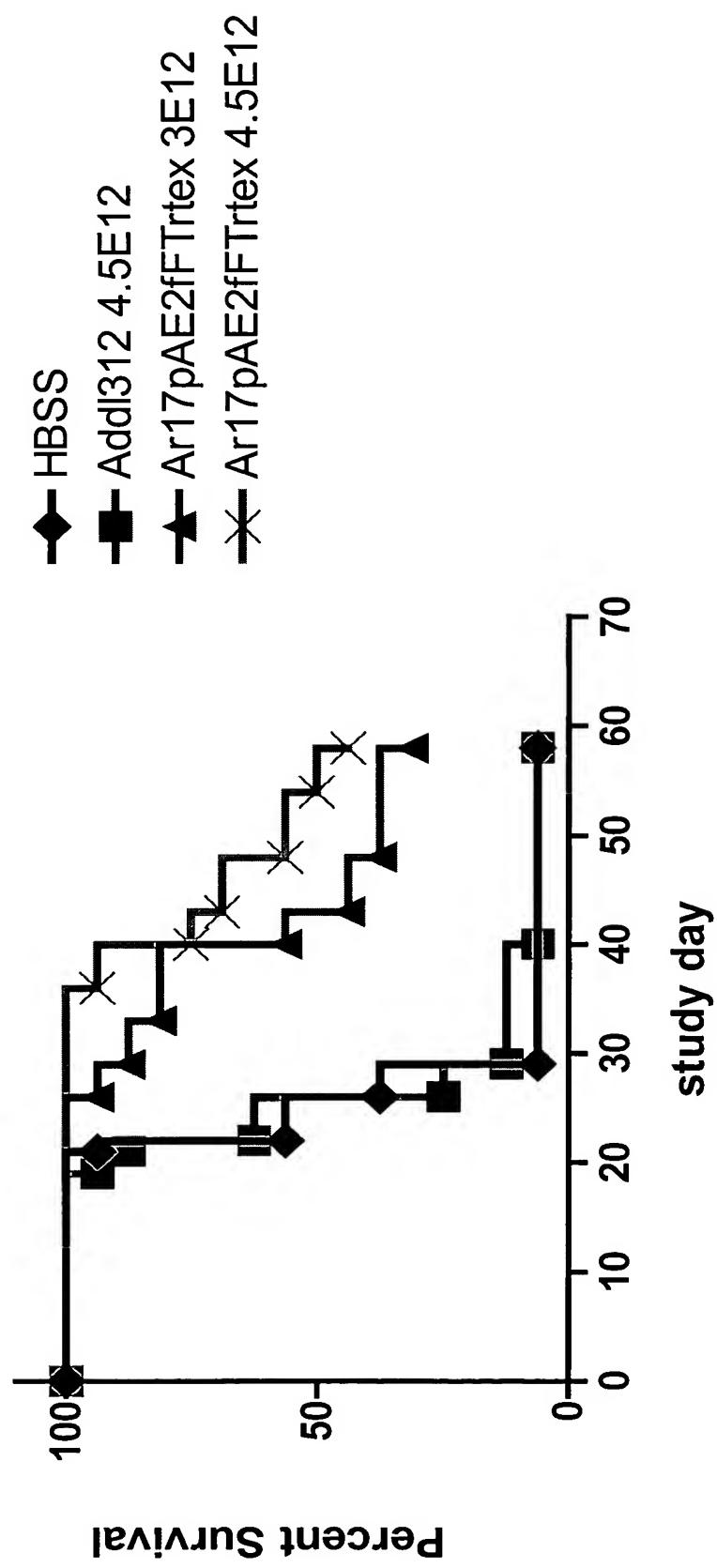


Figure 56

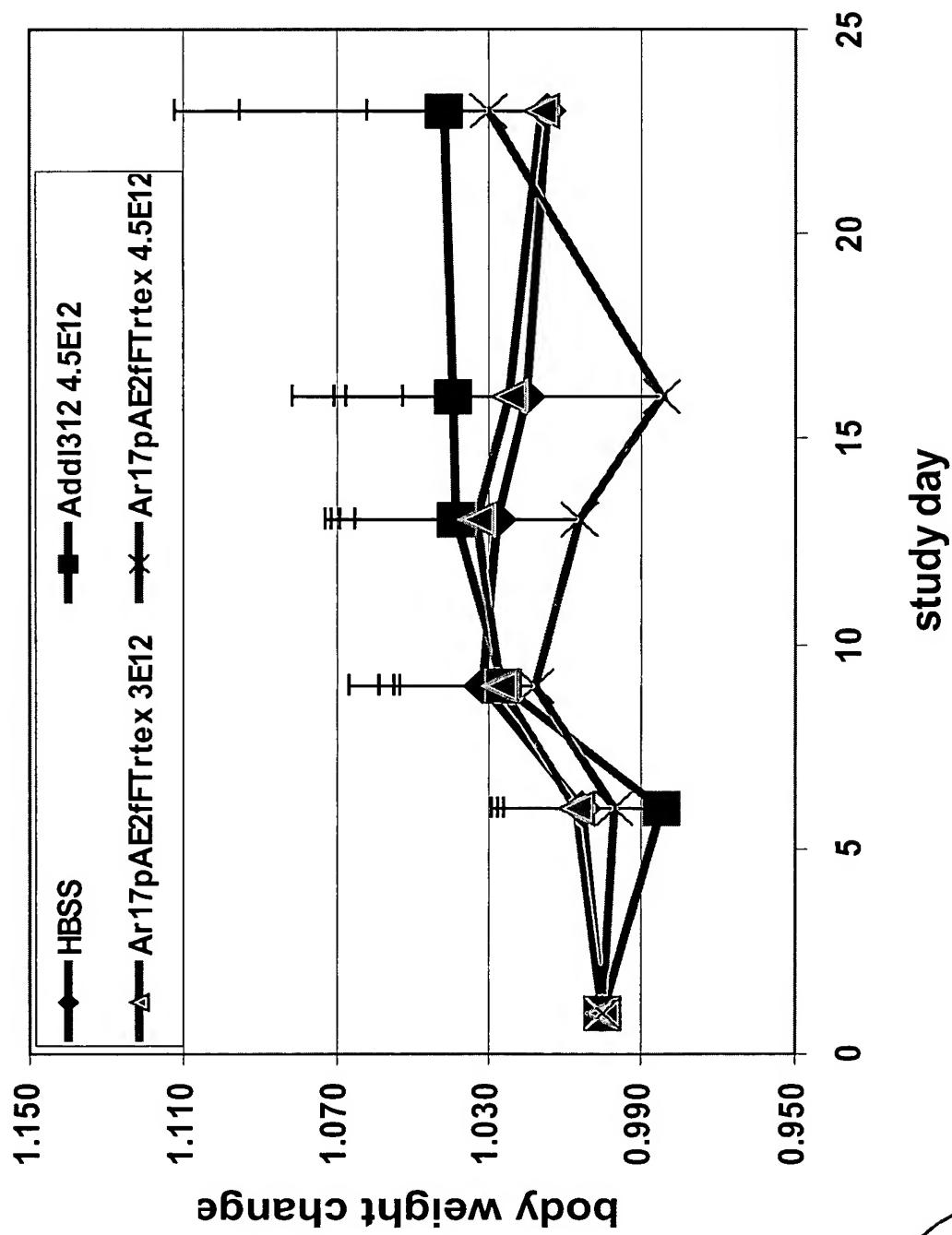
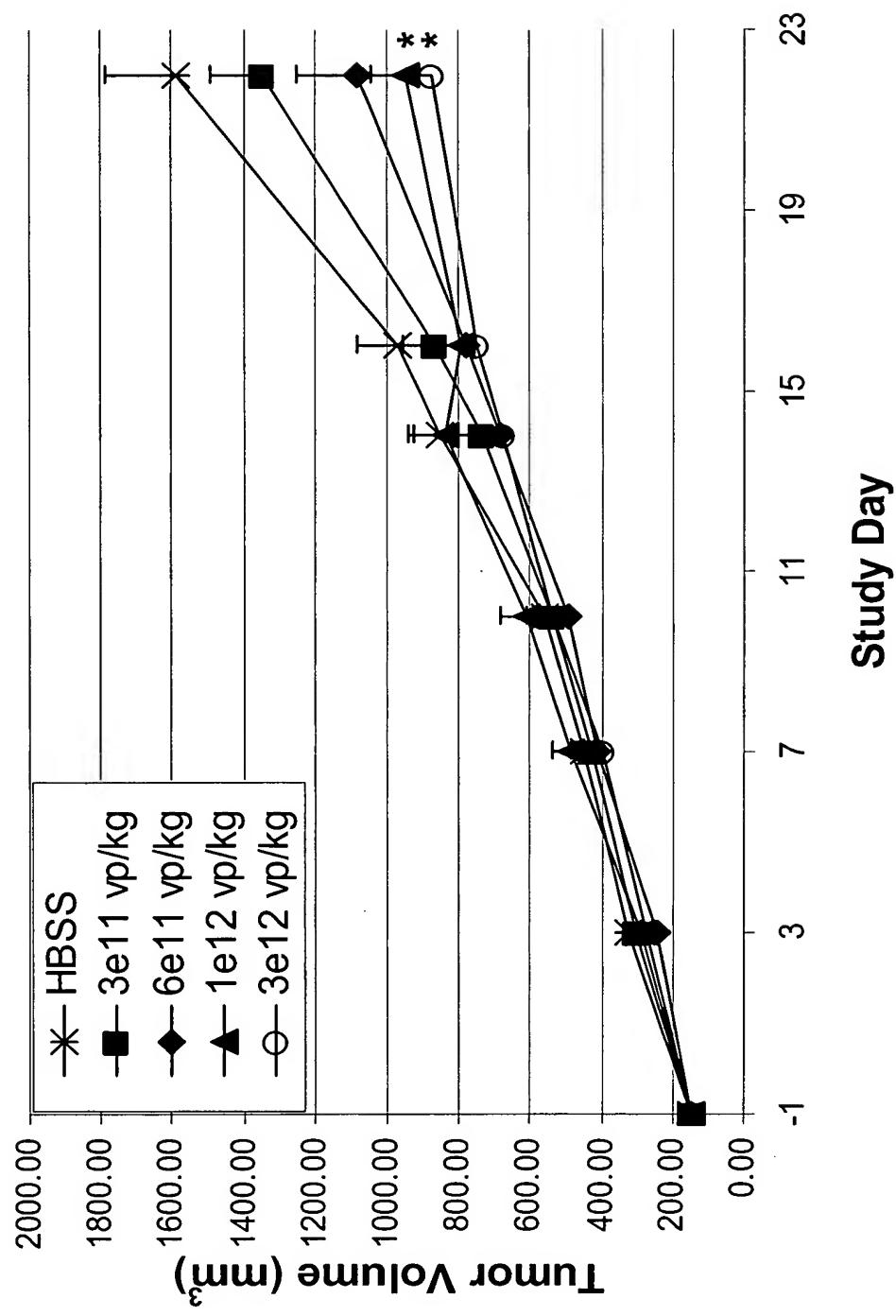


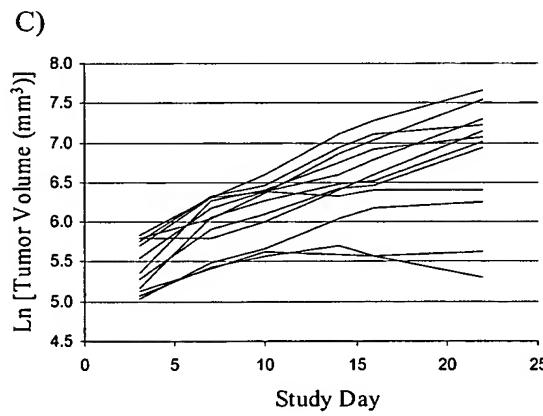
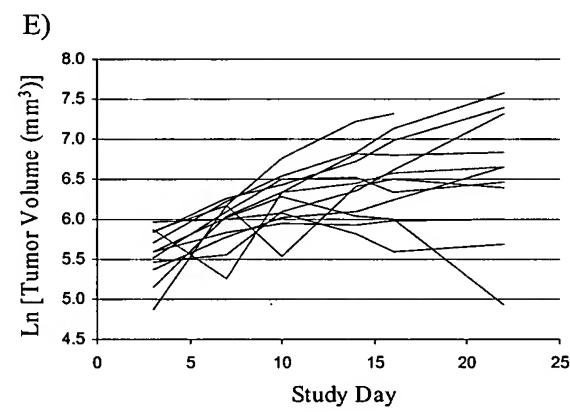
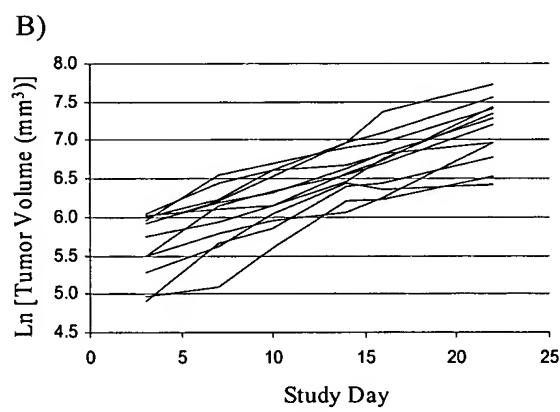
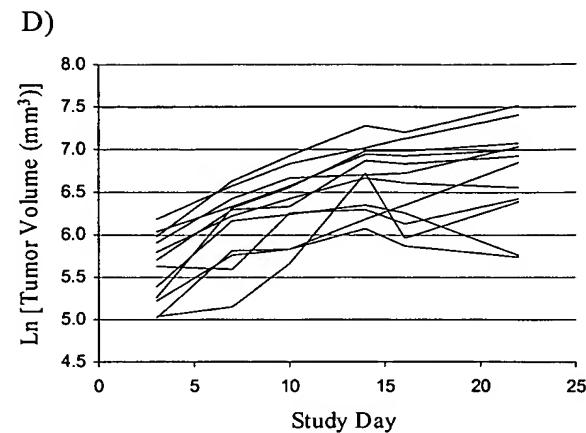
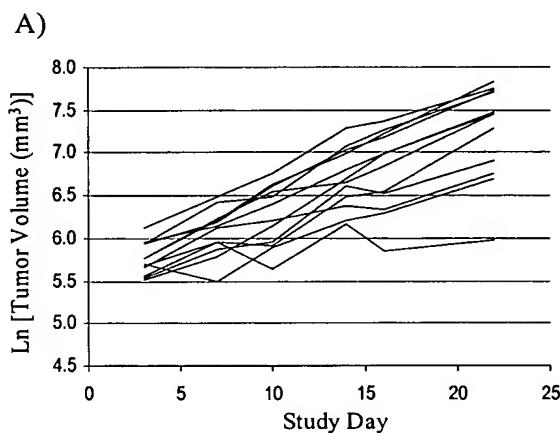
Figure 57



APPROVED
O.C. FIG.
BY CLASS / SUBCLASS
DRAFTSMAN

10 15969 0203102

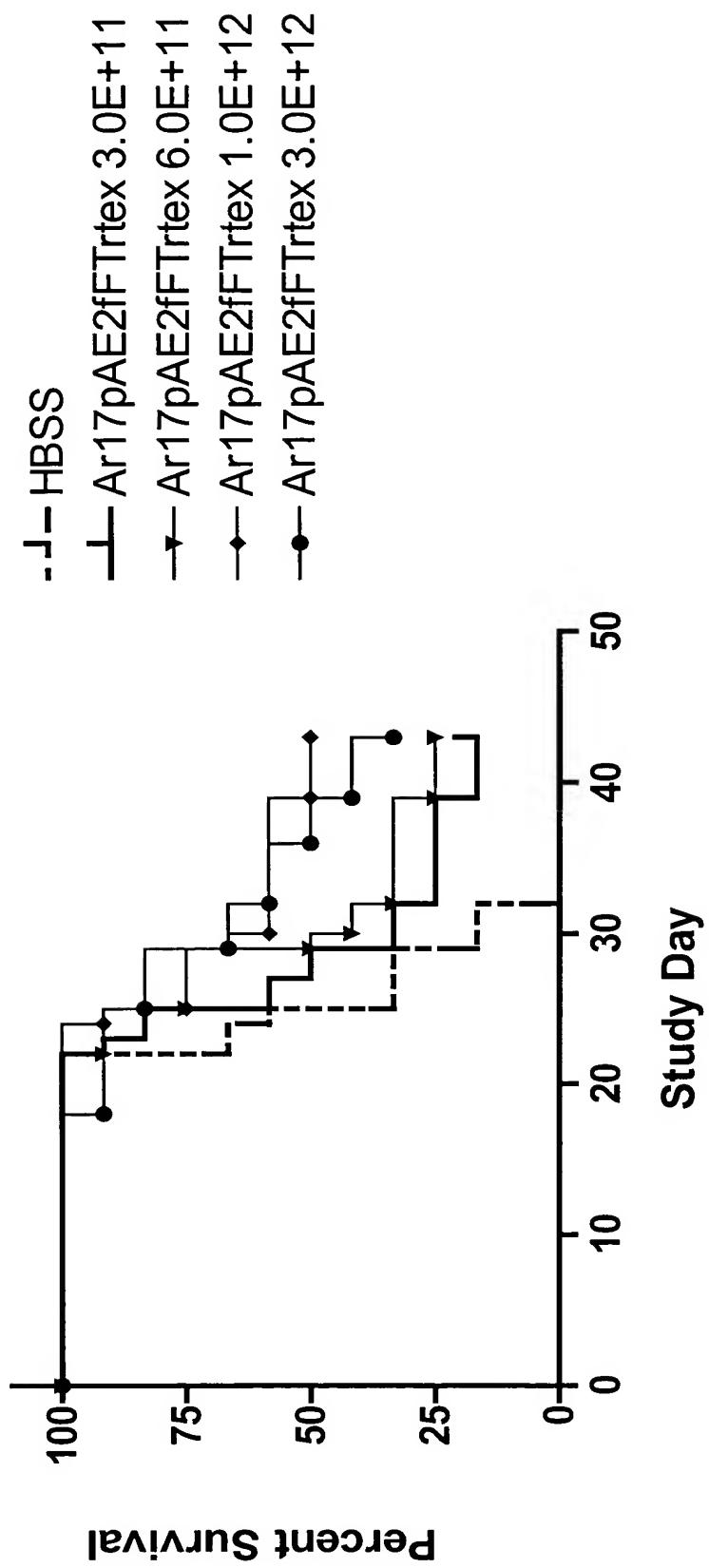
Figure 58



APPROVED D.G. FIG.
BY CLASS : SUBCLASS
DRAFTSMAN

47 83 1969 00001002

Figure 59



U.S. PATENT & TRADEMARK OFFICE
AUG 01 2002
451 JCPC

Figure 60

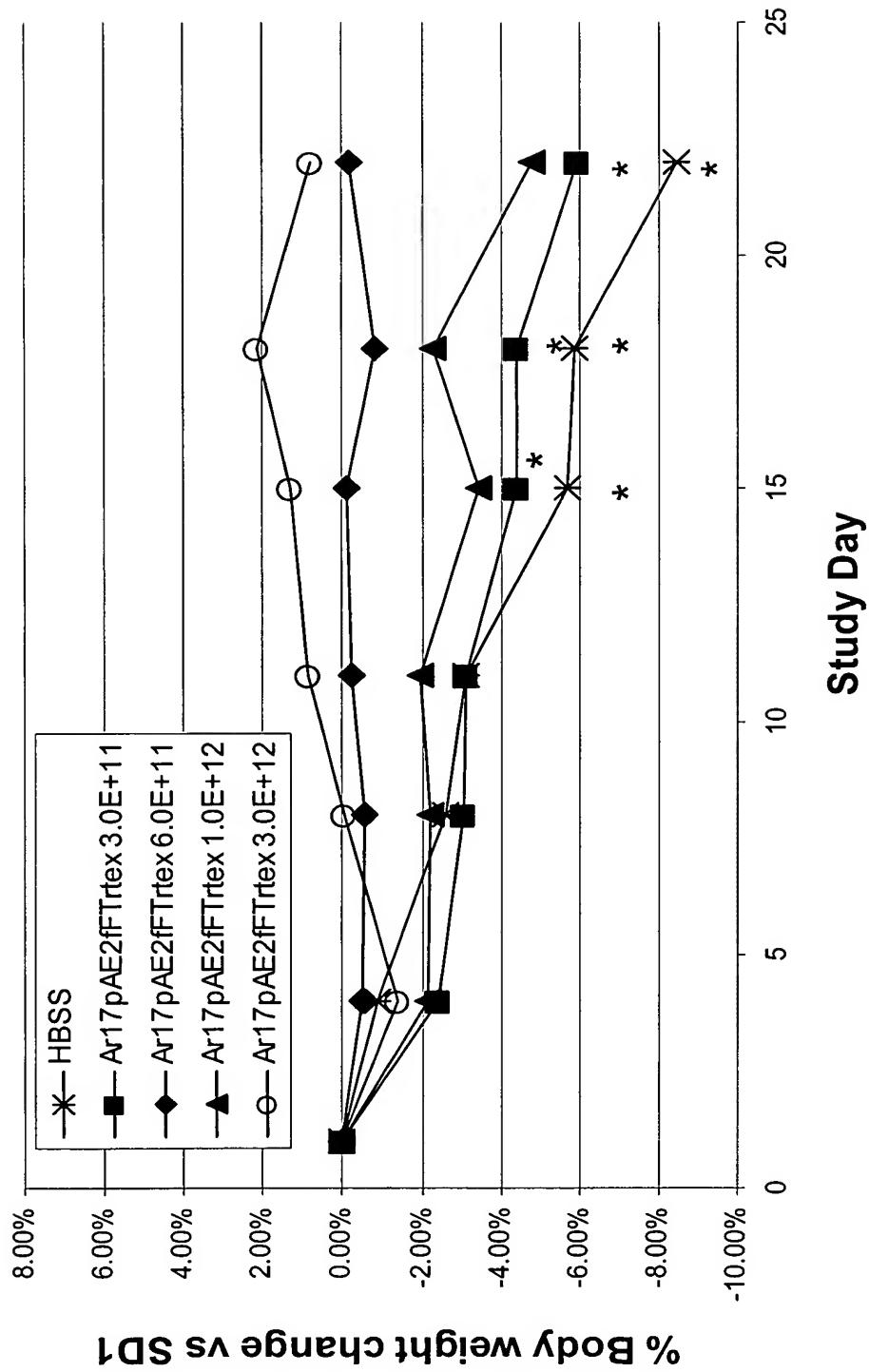


Figure 61

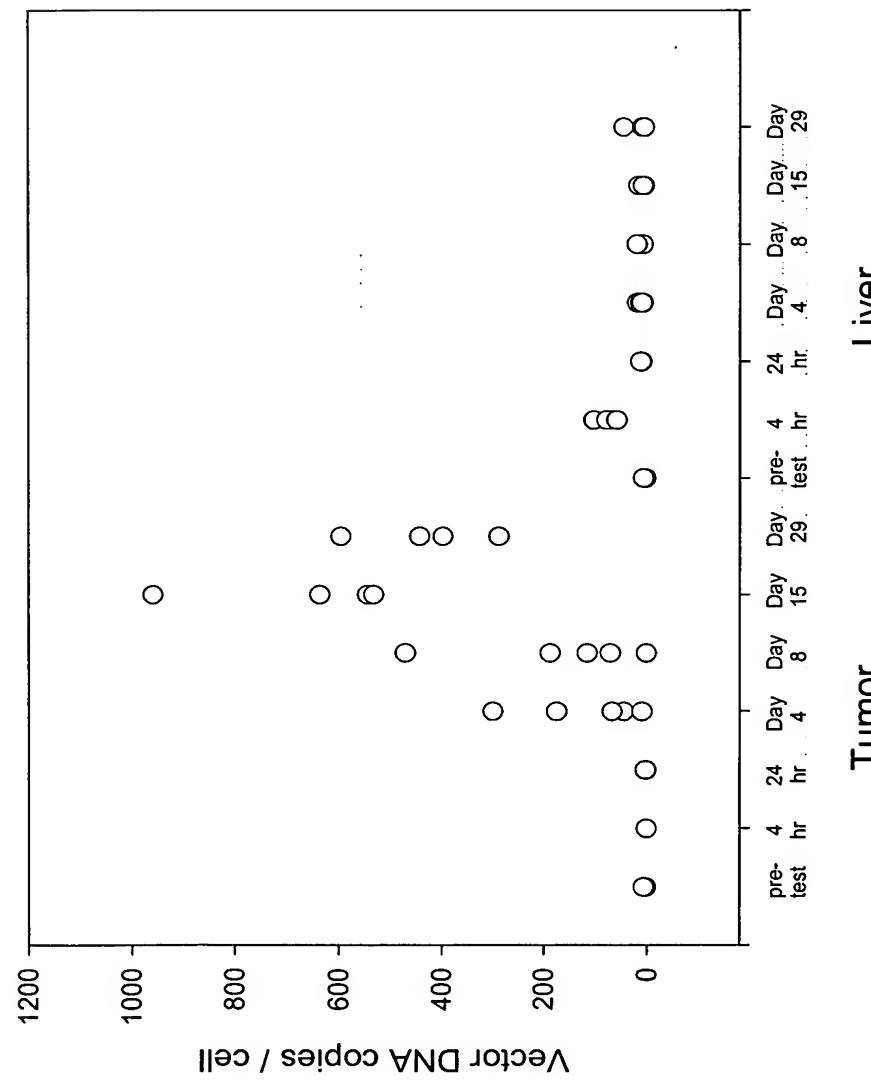


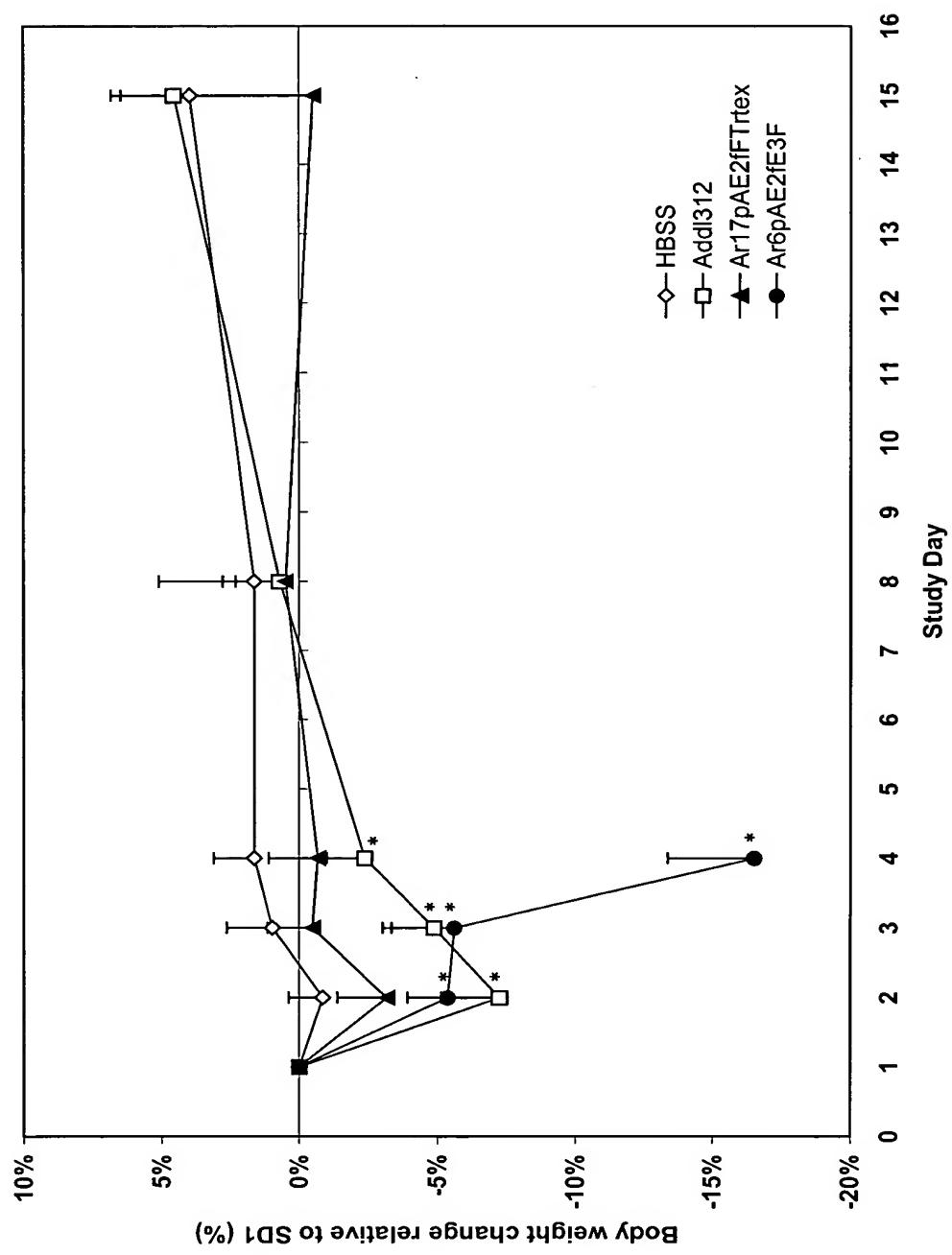
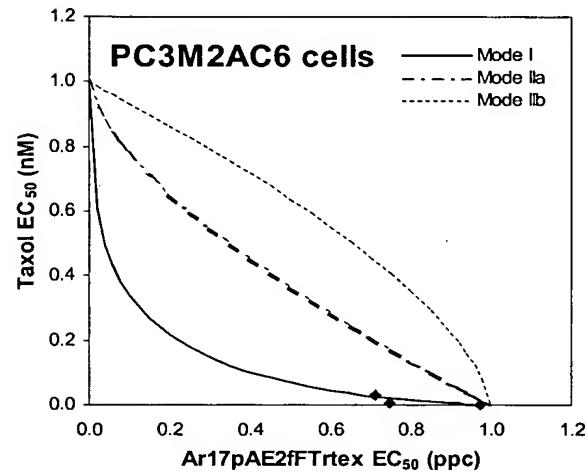
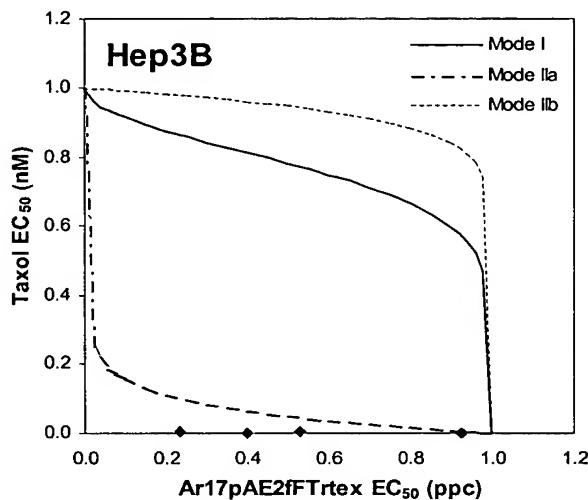
Figure 62


FIGURE 63



MR (ppc/nM)	Virus EC ₅₀ ^b	Chemo EC ₅₀ ^b	Effect
Virus alone	1	0	-
Chemo alone	0	1	-
8.3e-05	0.23	0.0043	synergy
3.3e-04	0.53	0.0024	synergy
1.3e-03	0.40	0.00046	synergy
5.3e-03	0.93	0.00027	synergy

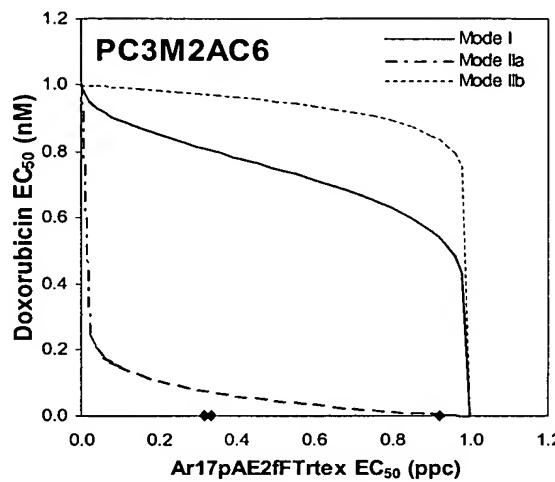
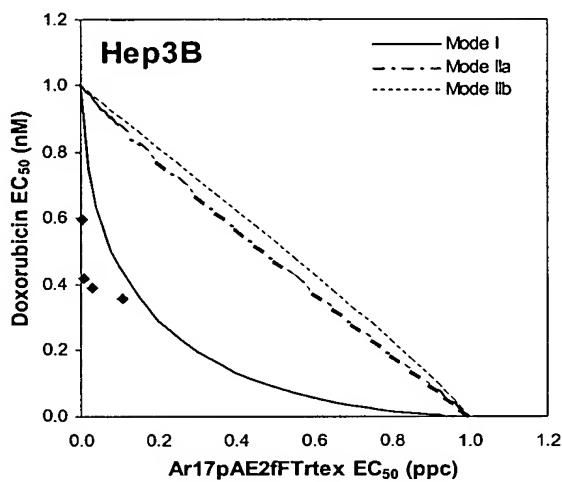
MR (ppc/nM)	Virus EC ₅₀ ^b	Chemo EC ₅₀ ^b	Effect
Virus alone	1	0	-
Chemo alone	0	1	-
0.02	3.4	1.3	antagonism
0.2	0.71	0.028	synergy
2	0.75	0.003	synergy
20	0.97	0.0004	synergy



APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

2025 RELEASE UNDER E.O. 14176

Figure 64

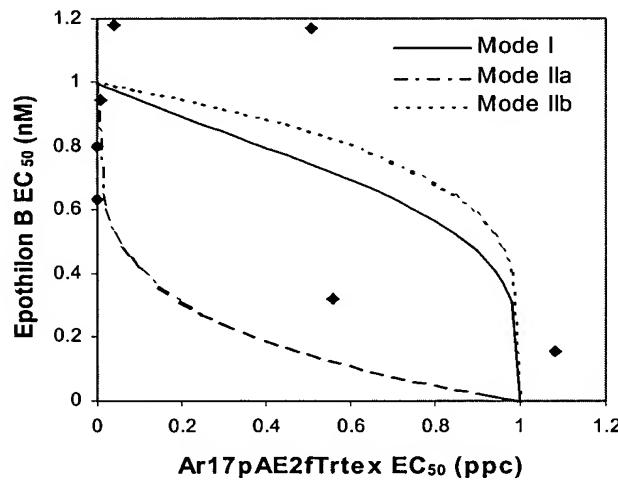


MR (ppc/nM)	Virus EC ₅₀ ^b	Chemo EC ₅₀ ^b	Effect
Virus alone	1	0	-
Chemo alone	0	1	-
1.3e-05	0.0028	0.60	synergy
5.0e-05	0.0078	0.42	synergy
2.0e-04	0.029	0.39	synergy
8.0e-04	0.11	0.36	synergy

MR (ppc/nM)	Virus EC ₅₀ ^b	Chemo EC ₅₀ ^b	Effect
Virus alone	1	0	-
Chemo alone	0	1	-
1	2.2	0.015	antagonism
10	0.92	6.1e-4	synergy
100	0.34	2.2e-5	synergy
1000	0.32	2.1e-6	synergy



Figure 65



	Virus EC ₅₀ ^b	Chemo EC ₅₀ ^b	Effect
Virus alone	1	0	-
Chemo alone	0	1	-
3.1e-06	0.00045	0.63	synergy
1.3e-05	0.0018	0.80	synergy
5.0e-05	0.0084	0.95	synergy
2.0e-04	0.042	1.2	antagonism
8.0e-04	0.18	1.6	antagonism
3.2e-03	0.51	1.2	antagonism
1.3e-02	0.56	0.32	additivity
5.1e-02	1.1	0.06	antagonism

Figure 66

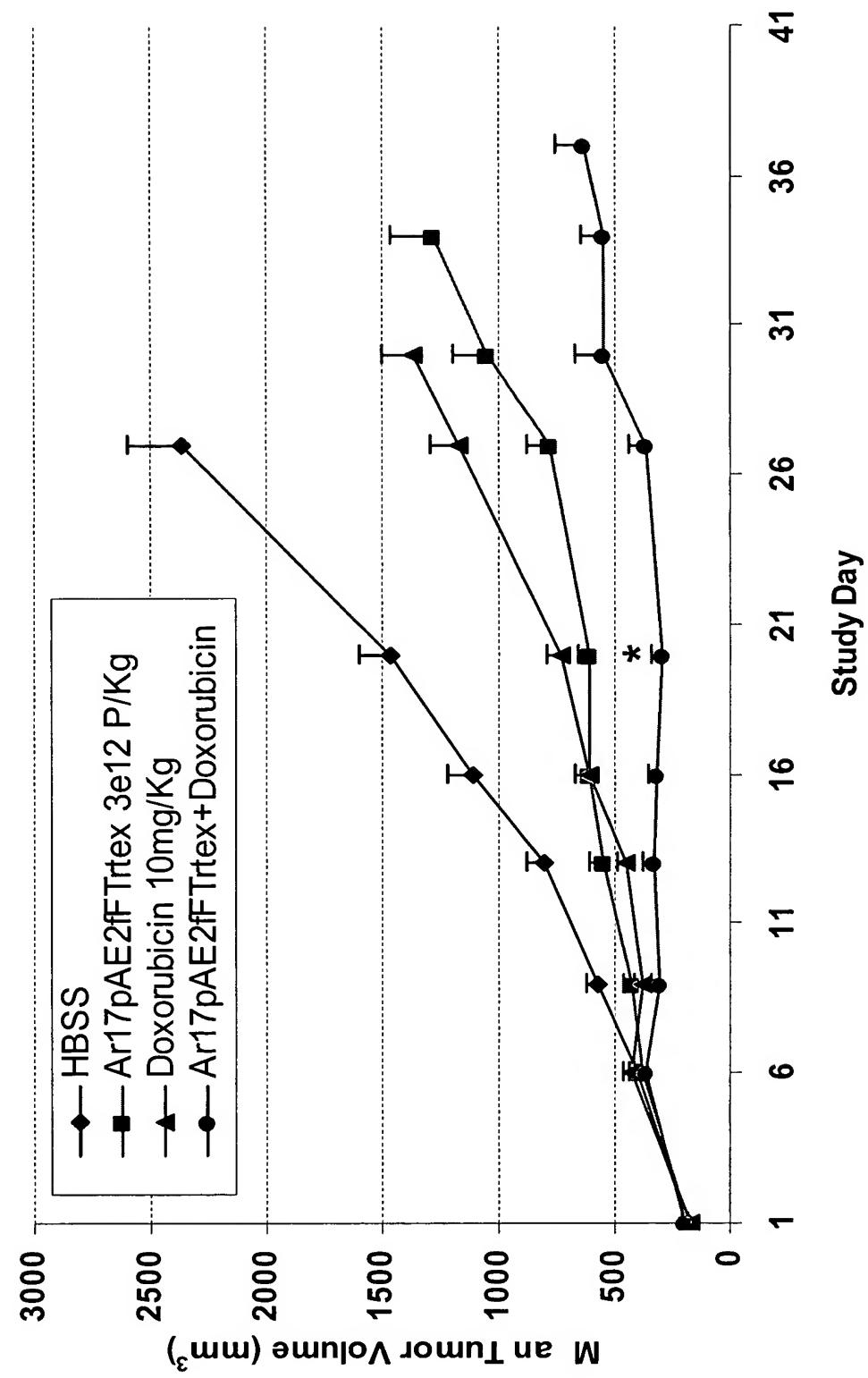


Figure 67

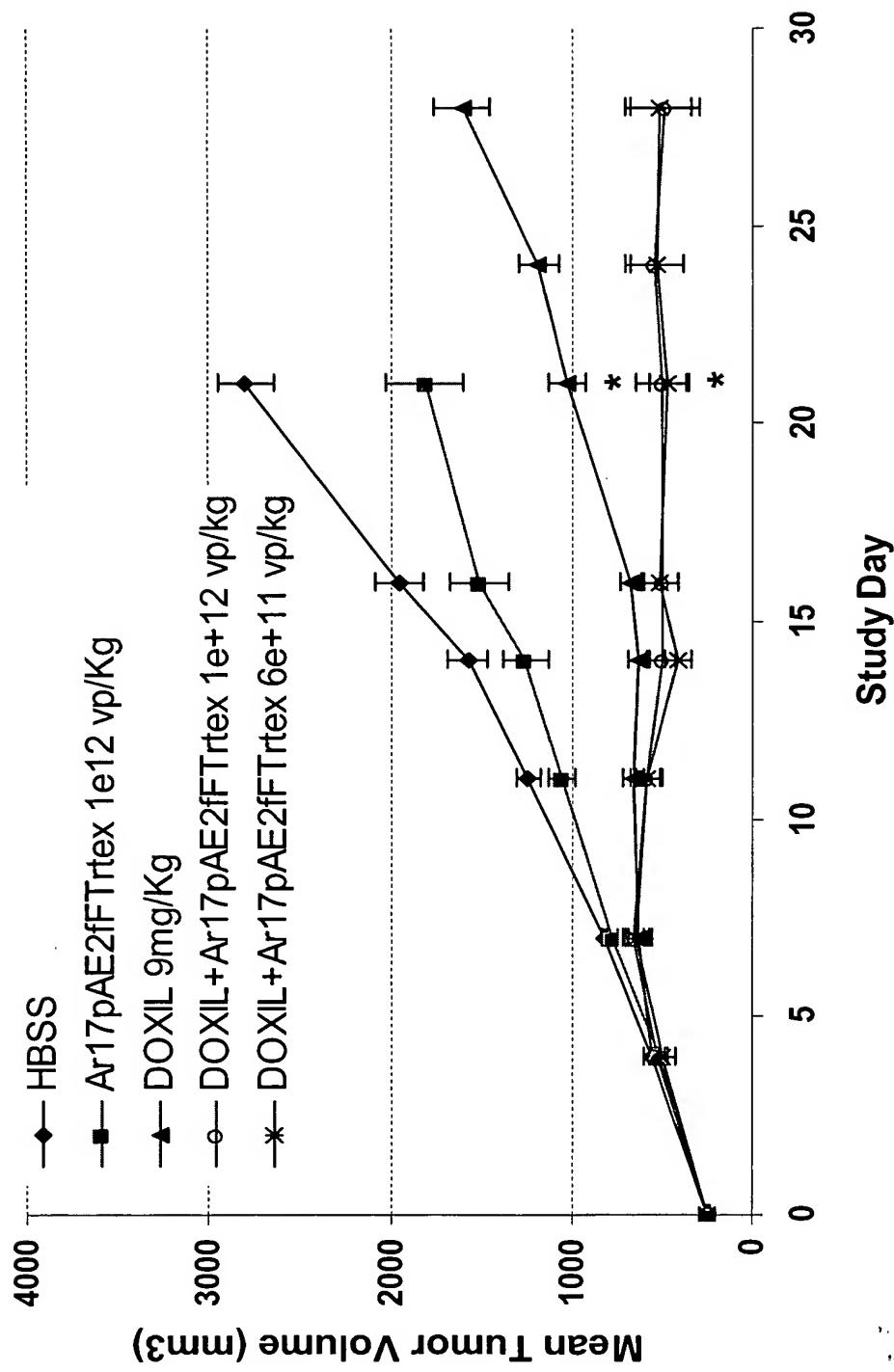


Figure 68

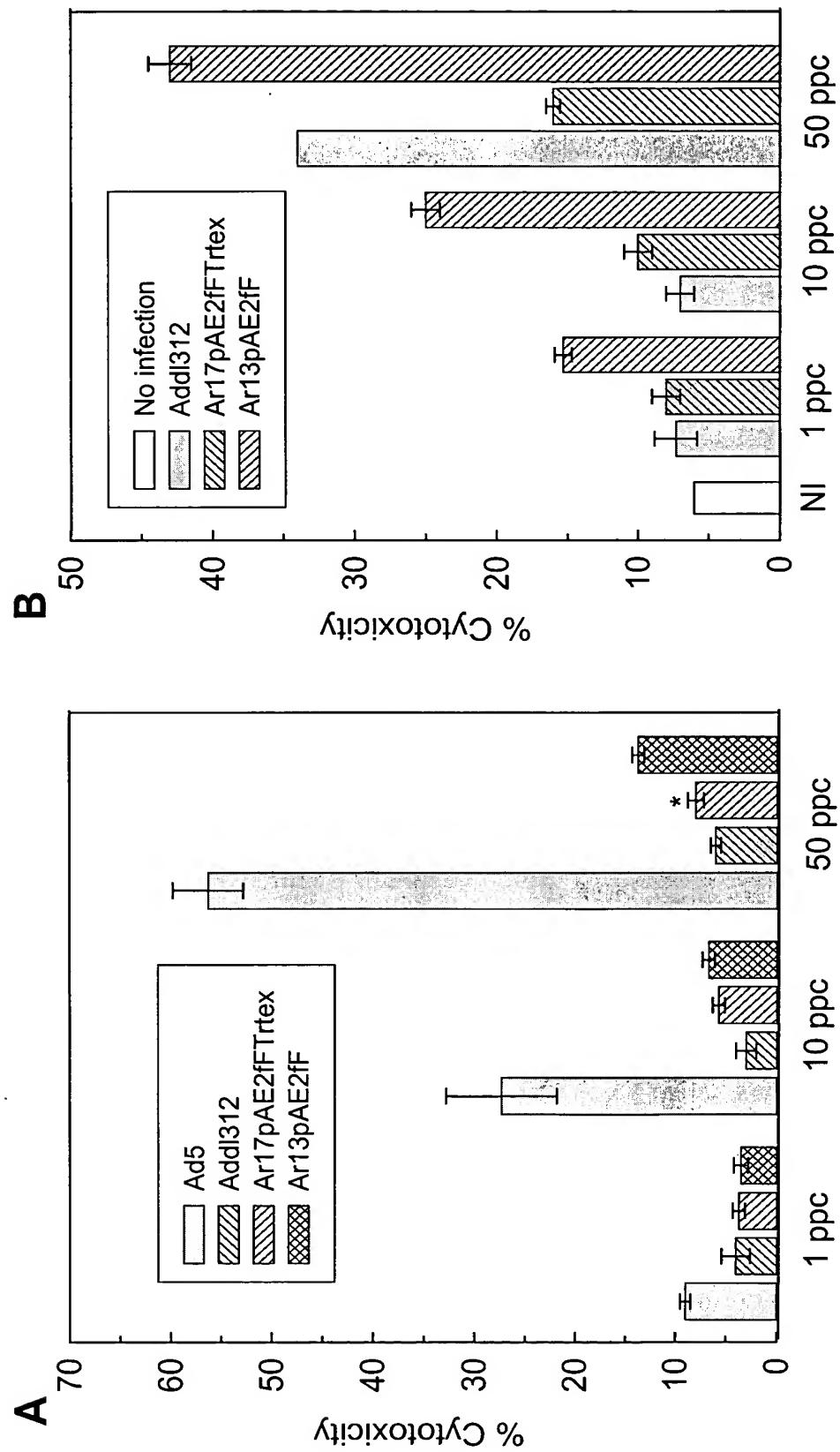


Figure 69

Ad35-Based Oncolytic Vectors

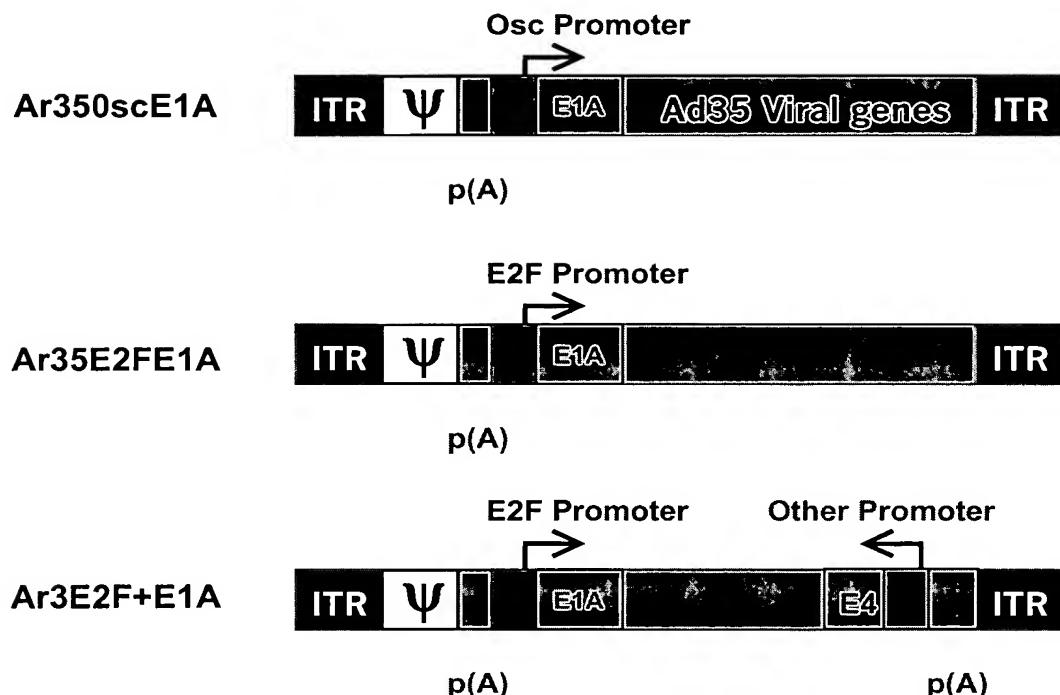


Figure 70

